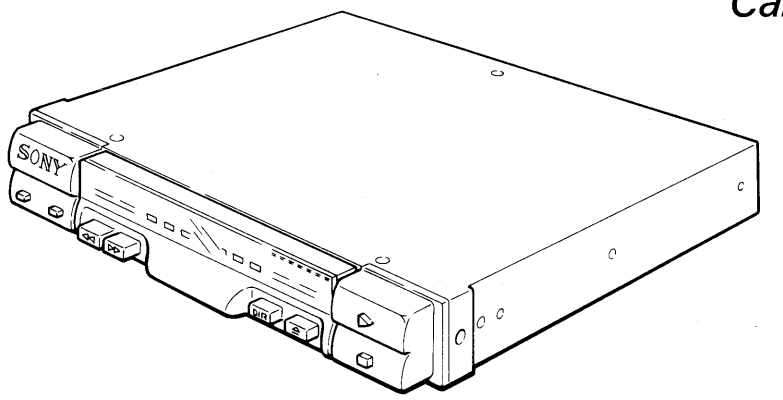
XK-8D

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model



Model Name Using Simular Mechanism	XK-8
Tape Transport Mechanism Type	MG-77A-90

SPECIFICATIONS

Cassette player section

Tape track: 4-track 2-channel stereo

Frequency response: 30–16,000 kHz

Signal-to-noise ratio (A-weighted)

TYPE II, IV cassette	58 dB
TYPE I cassette	55 dB

Dolby NR effect: More than 8 dB (CCIR/ARM)

Wow and flutter: 0.095% (WRMS)

Fast winding time: Approx. 110 sec. (with Sony C-60 cassette)

Stereo separation: Between channels: More than 30 dB

General

Line outputs: Phono jacks

Current drain: 300 mA (in playback mode)

Dimensions: 178 × 25 × 155 mm (w/h/d) (7 1/8 × 1 × 6 1/8 inches) not incl. projecting parts and controls

Mounting dimensions: Approx. 178 × 25 × 142 mm (w/h/d) (7 1/8 × 1 × 5 5/8 inches) not incl. projecting parts and controls

Cassette drawer projection: Approx. 85 mm

Weight: Approx. 1.2 kg (2 lb 10 oz)

Accessories supplied: Mounting hardware (1 set), Fuse (3.15 ampere...1, 1 ampere...2)

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

使用時は添付資料も参照のこと
Refer to the additional documents.

STEREO CASSETTE PLAYER

SONY®

AUD

FEATURES

- **1/2 DIN size (25 mm height) stereo cassette player**
- **Auto-reverse function** plays back the other side of a cassette continuously.
- **AMS* function** enables you to locate the beginning of the selection being played and the beginning of the next selection.
- **Dolby NR (noise reduction) system**** reduces tape hiss noise.
- **Automatic tape type detection system** sets the optimum equalization according to the type of cassette during playback.
- **Self-store system** closes the cassette drawer automatically when it is left open for more than approx. 15 seconds.
- **Key-off-release function,** which releases the tape surface from the capstan and pinch roller when the power is turned off, prevents the tape from being damaged.

* Automatic Music Sensor
** Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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SERVICING NOTE

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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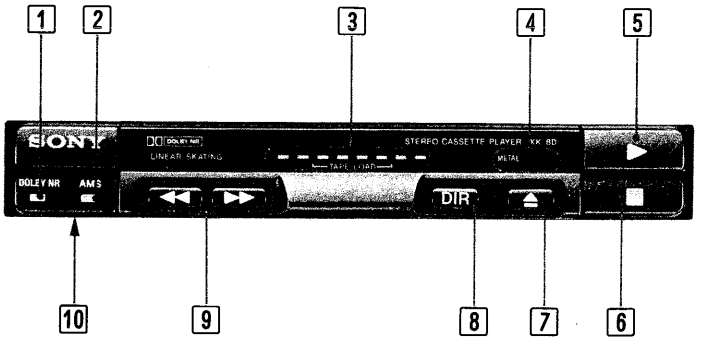
SECTION 1
OUTLINE

LOCATION AND FUNCTION OF CONTROLS

1 **DOLBY NR (noise reduction) switch and indicator**
Depress this switch when playing back a Dolby NR processed tape. The indicator of this switch lights up.
2 **AMS (automatic music sensor) button and indicator**
Used to locate the beginning of a selection. When a selection is being searched, the indicator of this button blinks.
3 **Tape direction indicator**
4 **METAL indicator**
Lights up when a TYPE II (CrO_2) or TYPE IV (metal) tape is being played back.
5 **▶ (playback) button**
6 **■ (stop) button**
7 **⏏ (open/close) button**
8 **DIR (direction mode) button**
9 **▶▶/◀◀ (fast winding) buttons**
10 **Line outputs (phono jacks)**

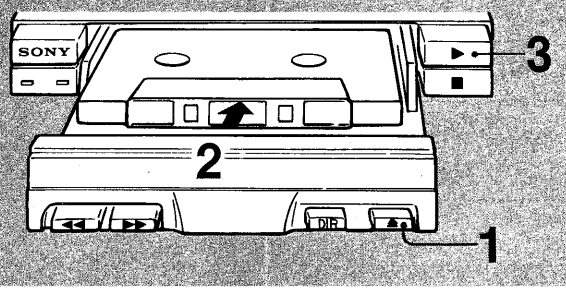


TAPE PLAYBACK

1 Press ⏏.
The cassette drawer opens.

2 Insert a cassette until it clicks with the tape surface toward you.
Tape direction indicator illuminates.

3 Press ▶.
The cassette drawer closes and playback begins. When it is completed, playback of the other side begins.



To play back the other side of a cassette during playback	Press DIR.
To stop playback	Press ■.
To stop playback and open the cassette compartment	Press ⏏.

Caution

Insert a cassette completely into the drawer before closing it, otherwise...
The drawer cannot be closed. In this case, press the ⏏ button again.

The tape direction indicator flashes when...
The cassette drawer is left open for more than 10 seconds.
After a few seconds, it closes automatically (self-store system).

If the unit does not operate properly
Set the ignition key of your car to OFF and then press the ■ button.

On cassette drawer
• To close the drawer, **press ⏏**. Never push the drawer itself forcibly.
• Take care not to press down or push up on the open drawer.

If the drawer does not open or close even if you press ⏏...
Press ⏏ again.

Direction mode indicators

Direction of the indicator	Side of cassette being played back
➡	Upper side
⬅	Lower side

TO LISTEN TO ANOTHER PART OF A TAPE

	Side of cassette being played back	Direction of indicator	Depress AMS and...
To locate the beginning of the following selection (AMS)	Upper side	➡	▶▶
	Lower side	⬅	◀◀
To locate the beginning of the selection being played (AMS)	Upper side	➡	◀◀
	Lower side	⬅	▶▶

			Depress
To advance the tape*	Upper side	➡	▶▶
	Lower side	⬅	◀◀
To resume playback after advancing*	Upper side	➡	▶
	Lower side	⬅	

* To rewind the tape and resume playback after rewinding, press the opposite ones.

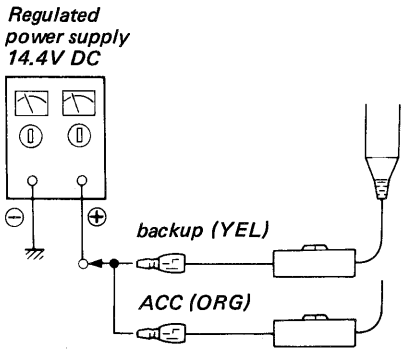
The desired selection cannot be located correctly:
—if there is noise in the space between selections.
—if a space is less than 4 seconds long.
—if there is a long pause in the music, a passage of low frequencies or very low volume or gradual increase or decrease of volume, as in some classical music.

SECTION 2
ADJUSTMENTS

- The adjustment should be performed in the order given in this service manual.
  The adjustments should be performed for both L-CH and R-CH.
- Power-supply voltage is +14.4V DC as per Ad Hoc recommendation.
- Switches and controls should be set as follows unless otherwise specified.

  AMS: OFF
  DOLBY NR: OFF

- **Notes on connecting the power supply.**



Torque Measurement

Mode	Torque Meter	Meter Reading
NOR	CQ-102C	45 – 70 g•cm (0.63 – 0.98 oz•inch)
REV	CQ-102RC	45 – 70 g•cm (0.63 – 0.98 oz•inch)
FF/REW	CQ-201B	60 – 110 g•cm (0.84 – 1.54 oz•inch)
Back Tension/ NOR	CQ-102C	2.0 – 5.0 g•cm (0.028 – 0.07 oz•inch)
Back Tension/ REV	CQ-102RC	2.0 – 5.0 g•cm (0.028 – 0.07 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
NOR	CQ-403A	more than 80 g (more than 2.82 oz)
REV	CQ-403R	

2-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

   playback head — pinch roller
   erase head — capstan

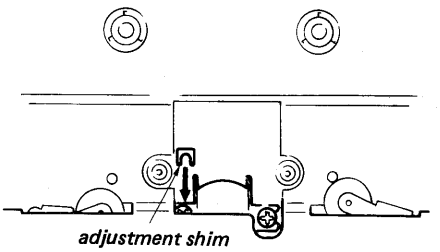
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Head Height Adjustment

Play back the mirror cassette (CQ-009C) in NOR and REV FWD mode. Then adjust the head height to eliminate tape curl and tape twist at the PB head and tape guides by replacing the adjustment shim.

Adjustment shim

	t
3-513-237-01	0.1
3-513-237-11	0.2

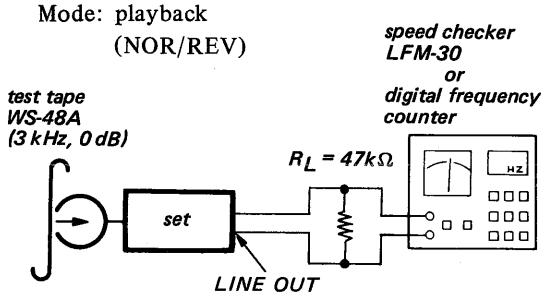


2-2. ELECTRICAL ADJUSTMENTS

Tape Speed Adjustment

Procedure:

Mode: playback (NOR/REV)



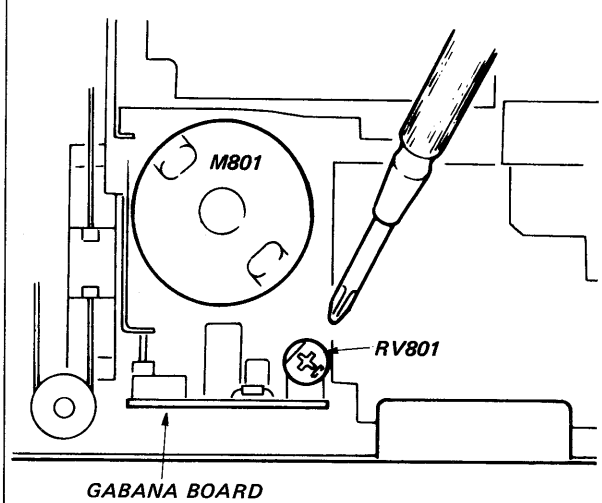
Adjust RV801 to meet the specifications.

Specifications:

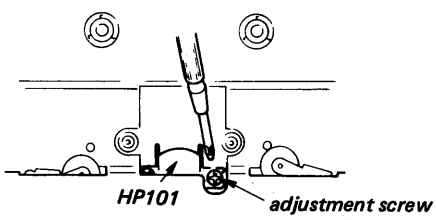
Speed checker	Digital frequency counter
+0.3 – +1%	3,010 – 3,030 Hz

Frequency difference between the begining and the end of the tape should be within ±0.3% (±10 Hz).

Adjustment Location: GABANA BOARD



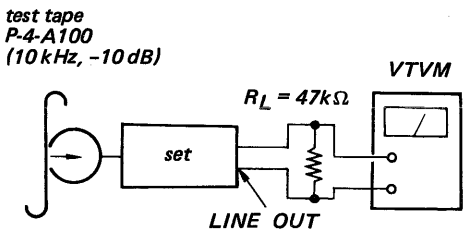
Adjustment Location:



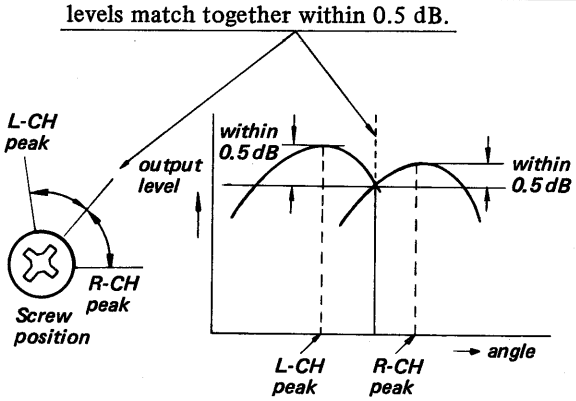
Playback Head Azimuth Adjustment

Procedure:

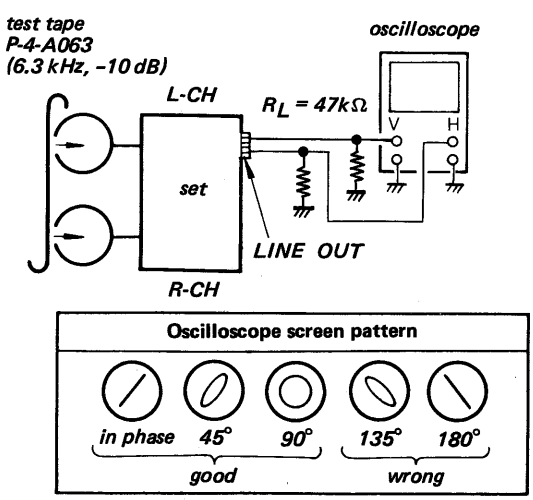
1. Mode: playback (NOR/REV)



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



3. Phase Check
   Confirm that phase difference between L-channel and R-channel is with 90°.



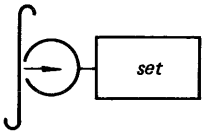
4. Repeat the above adjustment for REV playback mode, completing the adjustment by turning clockwise.
5. After the adjustment, lock the screw with locking compound.

Dolby Level Adjustment

Setting:

DOLBY NR Switch: OFF
PLAY BACK Mode: NOR and REV FORWARD

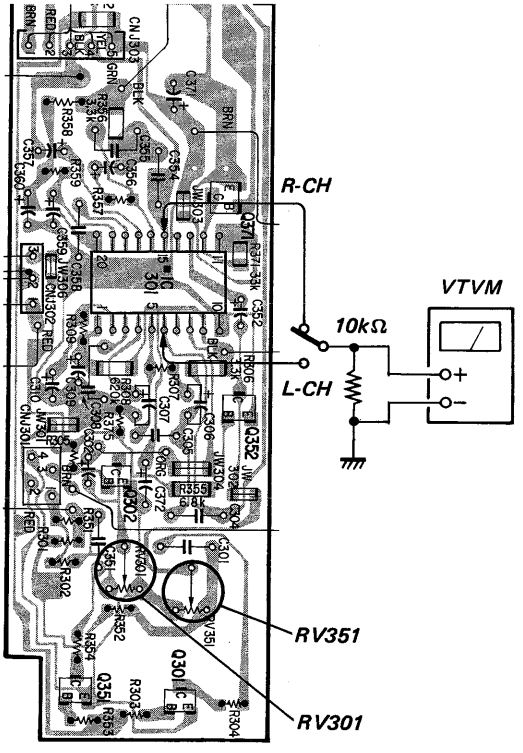
test tape:
P-4-D400
(400 Hz, 0 dB)
& NORMAL TYPE
(not used portion)



Procedures:

1. Play back the test tape P-4-D400.
2. Adjust RV301 (L-CH) and RV351 (R-CH) so that the readings of the VTVM become in -4.7 ± 0.2 dB (440 – 451 mV).
3. Playback NORMAL TAPE (not used portion) and confirm that the output level difference between ON and OFF of DOLBY NR is 5dB or more. (Both channels.)
4. The specification should be met in both NOR and REV FORWARD. If there is a level difference between NOR and REV, adjust RV301 or RV351 again so that the average becomes -4.7 dB.

【DOLBY BOARD】



REFERENCE

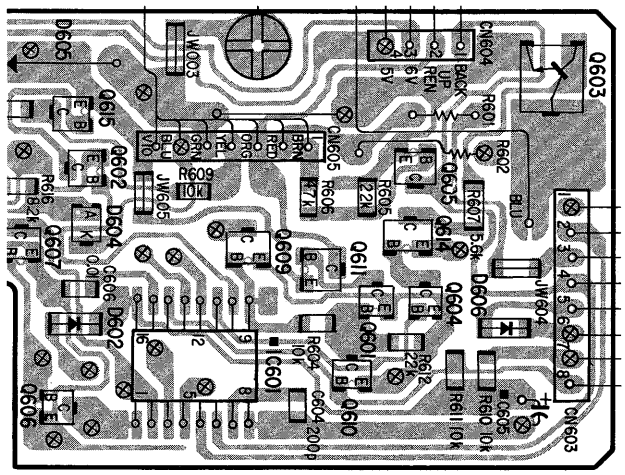
IC610 Clock Frequency Adjustment

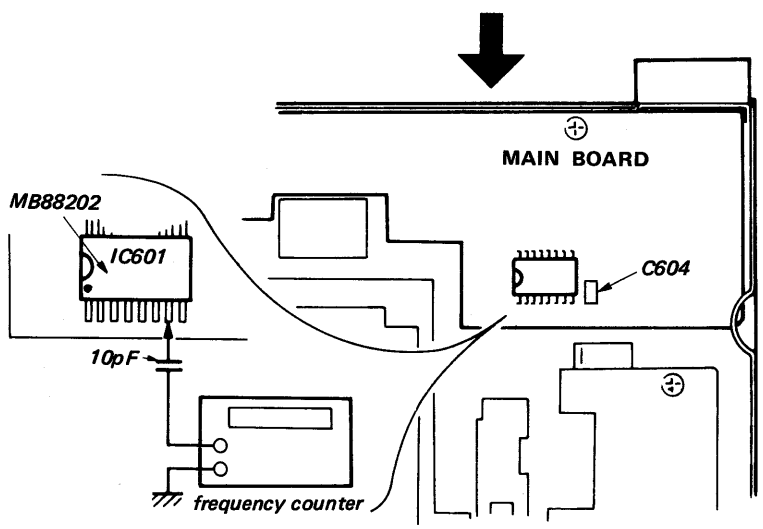
- If the loading motor working-time is other than 3 – 3.5 seconds, perform this adjustment.
  The loading motor working time is preset in the micom (IC601), and can be measured with the wire rope of the cassette drawer removed.

Procedure:

1. Connect a frequency counter to pin 7 of IC601 as illustrated and measure the frequency.
2. If the frequency is higher than 950 kHz, change the value of C604 to 220pF. If it is lower than 780 kHz, change to 180pF.

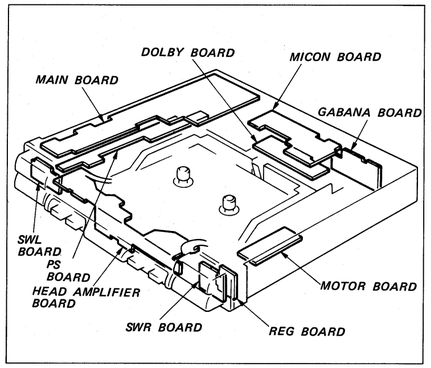
【MAIN BOARD】





SECTION 3
DIAGRAMS

CIRCUIT BOARDS LOCATION



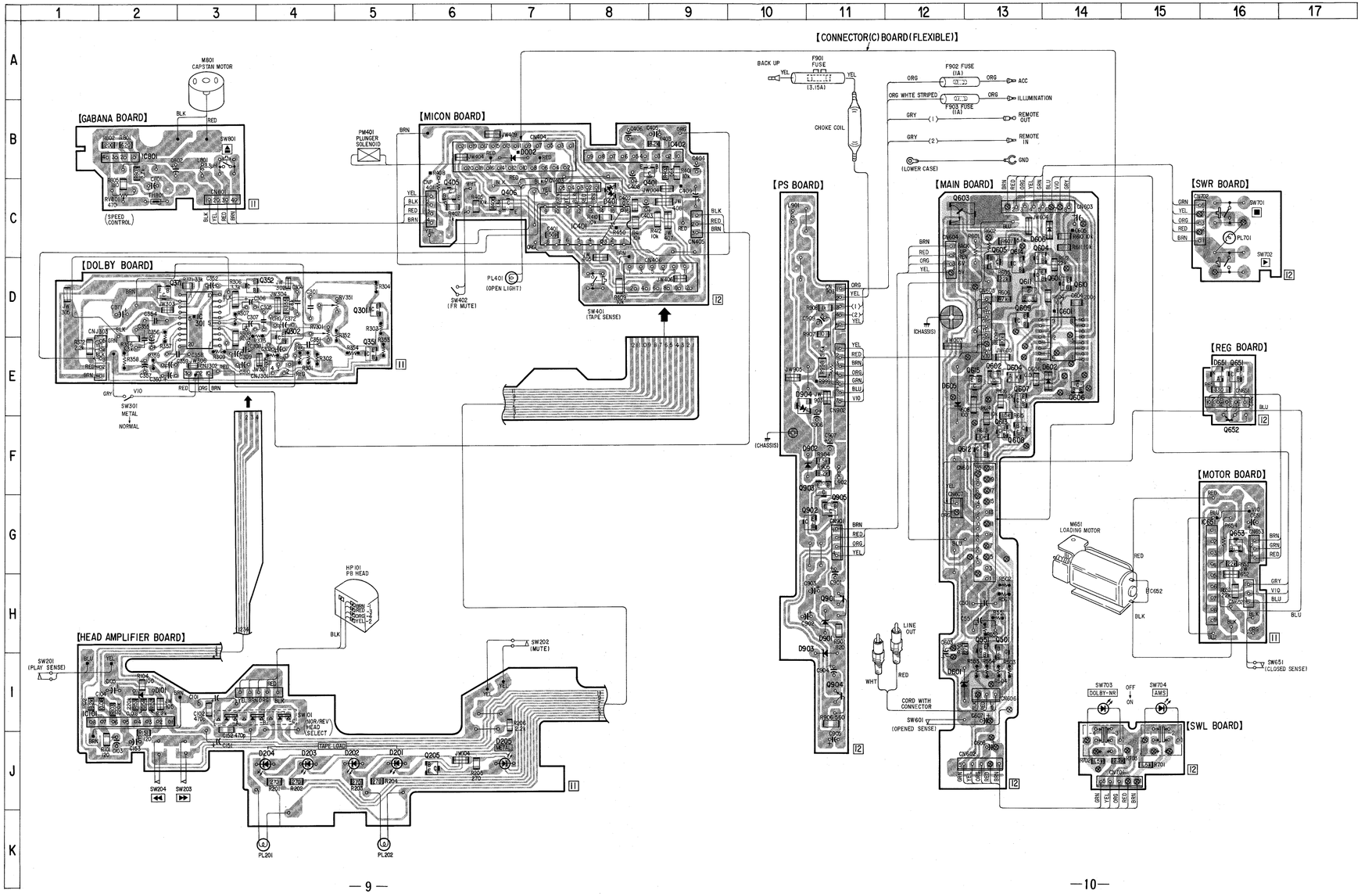
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D002	B-7	IC301	D-3	Q604	D-14
D101	I-2	IC401	C-8	Q605	D-13
D201	J-5	IC402	B-8	Q606	E-14
D202	J-5	IC601	D-14	Q607	E-13
D203	J-4	IC651	G-16	Q608	F-13
D204	J-4	IC801	B-2	Q609	D-13
D205	J-7			Q610	D-14
D301	D-4	Q205	J-6	Q611	D-13
D401	C-8	Q301	D-5	Q612	F-13
D601	I-13	Q302	D-4	Q613	F-13
D602	E-14	Q351	E-5	Q614	D-13
D603	C-13	Q352	D-3	Q615	E-13
D604	E-13	Q353	D-4	Q651	E-16
D605	E-13	Q371	D-2	Q652	F-16
D606	C-14	Q401	B-9	Q653	G-16
D651	E-16	Q405	C-6	Q901	H-11
D901	H-11	Q406	C-7	Q902	G-11
D902	F-11	Q501	H-13	Q903	F-11
D903	I-11	Q551	H-13	Q904	I-11
D904	E-11	Q601	D-14	Q905	G-11
		Q602	E-13		
IC101	I-2	Q603	C-13		

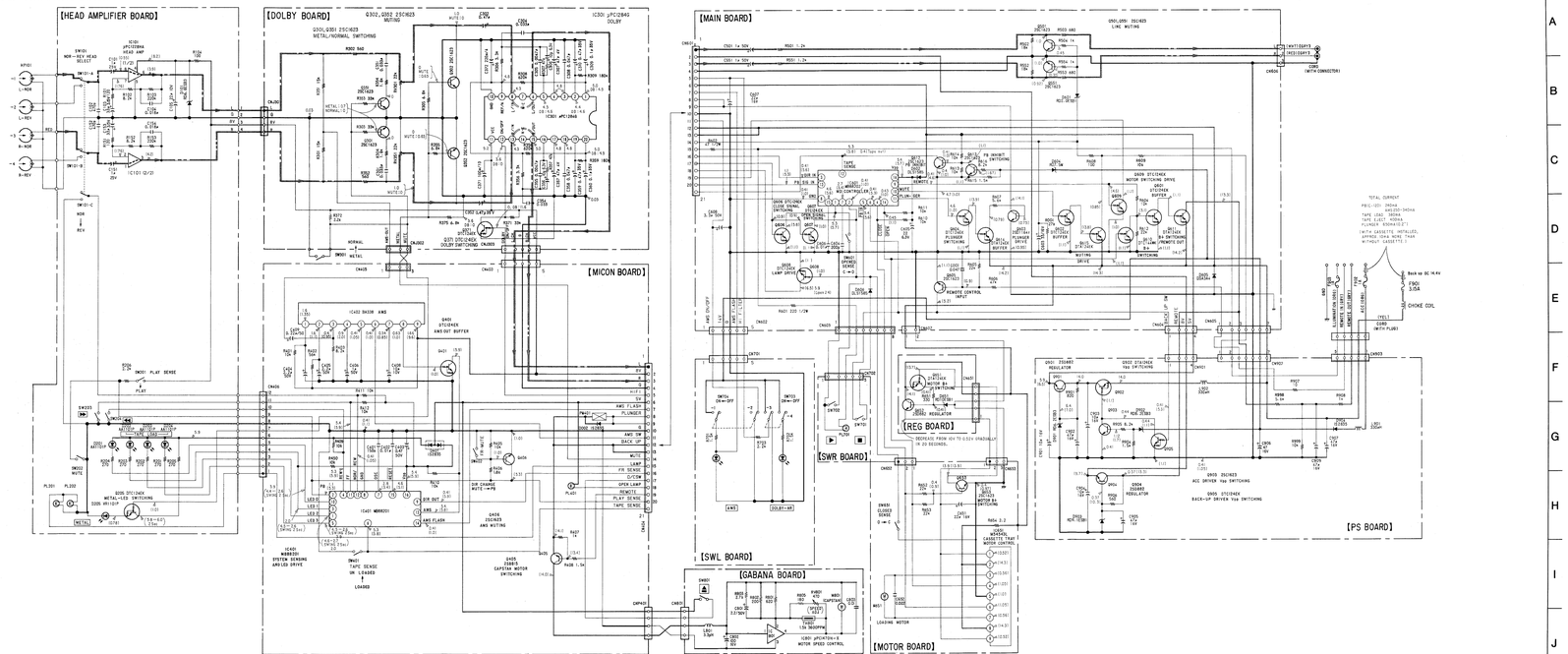
Note:

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : indicates side identified with part number.
- ⊗ : Through hole.
- ▒▒ : component-side pattern.

3-1. MOUNTING DIAGRAM



3-2. SCHEMATIC DIAGRAM



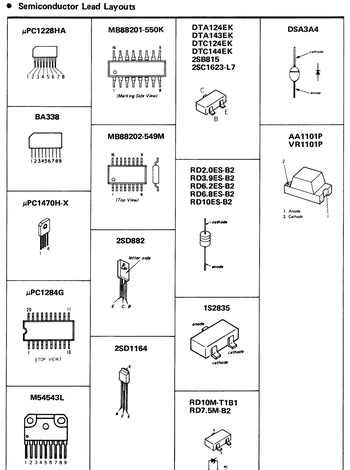
Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ⏚⏚⏚⏚ : B+ bus.
- Total current is measured with a cassette installed.
- Power voltage is 14.4 V and fed with regulated dc power supply from ACC and Back-up power input terminals. Voltage variations may be noted due to normal production tolerances.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
- ⟶⟶⟶ : L-CH signal path
- ⟶⟶⟶ : R-CH signal path

- Switches:

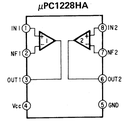
Ref. No.	Switch	Position
SW101	NOR/REV HEAD SELECT	NOR
SW201	PLAY SENSE	OFF
SW202	MUTE	OFF
SW203	FF ▶▶	OFF
SW204	REW ◀◀	OFF
SW301	METAL	METAL
SW401	TAPE SENSE	LOADED
SW402	FR MUTE	OFF
SW601	OPENED SENSE	CLOSE
SW651	CLOSED SENSE	OPEN
SW701	STOP ■	OFF
SW702	PLAY ▶	OFF
SW703	DOLBY NR	OFF
SW704	AMS	OFF
SWB01	OPEN/CLOSE ⏏	OFF

- Semiconductor Lead Layouts

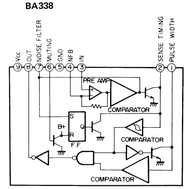


- IC BLOCK DIAGRAMS

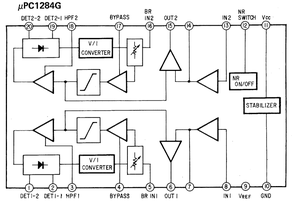
- IC101 μPC1228HA



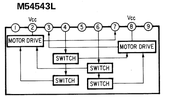
- IC402 BA338



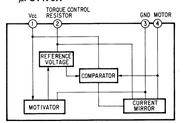
- IC301 μPC1284G



- IC651 M54543L



- IC801 μPC1470H



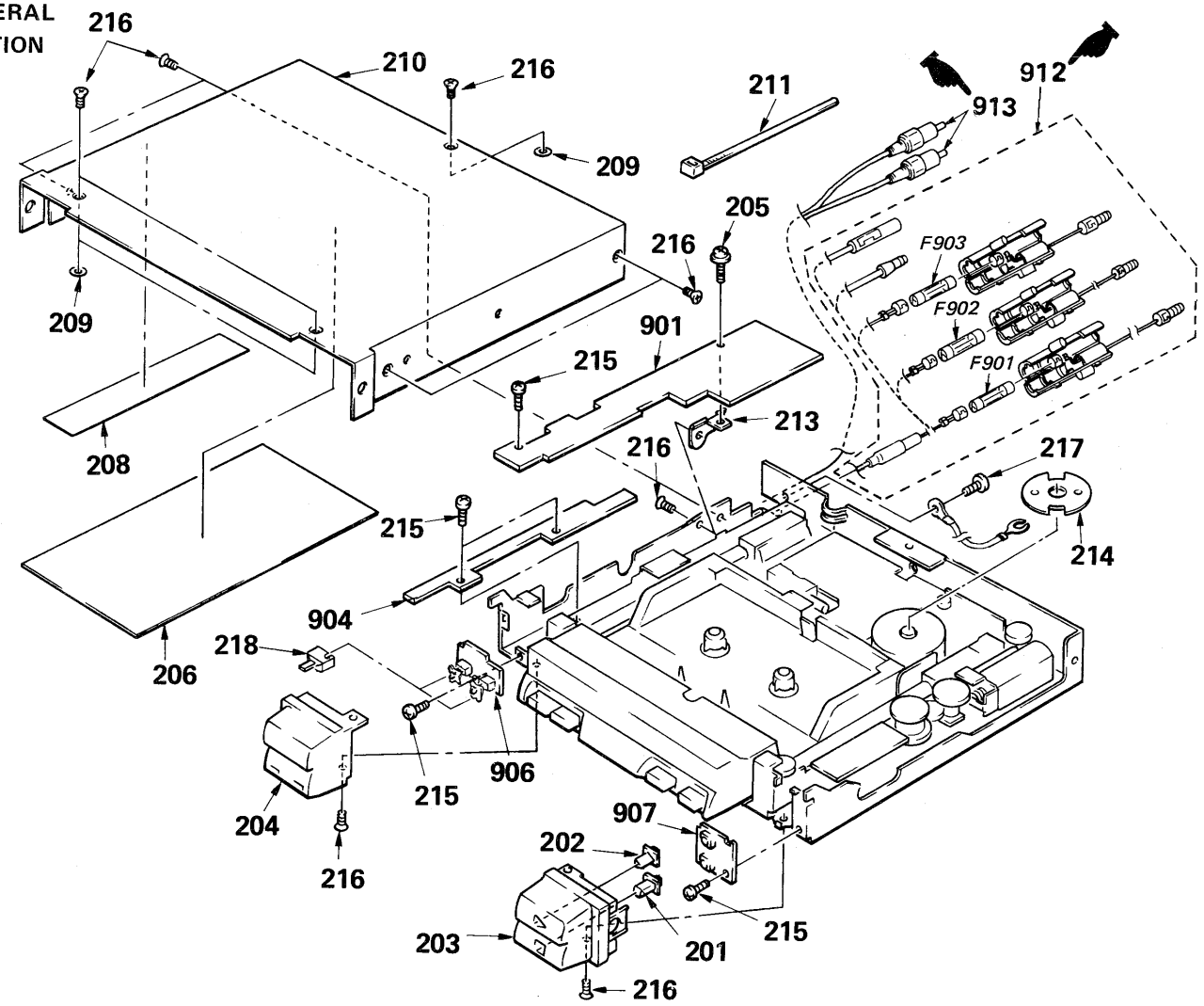
REVISED

XK-8D

SECTION 4
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts
  Example: (RED) ..... KNOB, BALANCE (WHITE)
  (RED) = Cabinet's Color; (WHITE) = Parts' Color

(1) GENERAL SECTION

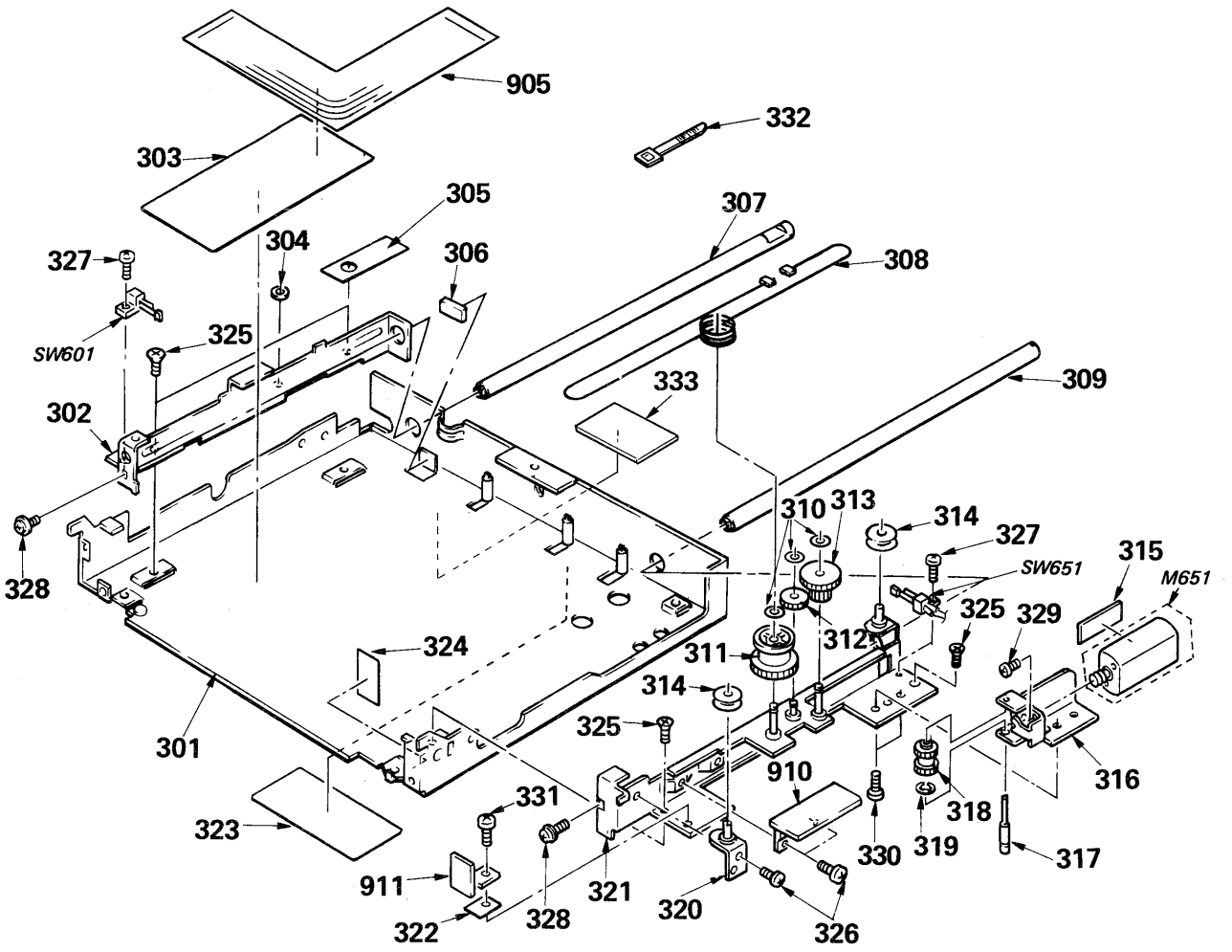


No.	Part No.	Description	Remarks
201	3-339-945-01	BUTTON, STOP	
202	3-339-944-01	BUTTON, PLAY	
203	3-339-972-01	PIECE (RIGHT), NOSE	
204	3-339-983-11	PIECE (LEFT), NOSE	
205	7-621-255-35	SCREW, LOCK	
206	*3-342-439-02	PLATE, SHIELD	
208	*3-342-434-02	SHEET (J)	
209	3-342-428-01	WASHER	
210	*3-339-987-02	LID, UPPER	
211	*3-671-893-00	CLAMP (LOW TYPE)	
213	*3-342-404-03	HOLDER, PC BOARD	
214	*3-342-423-01	SHIELD PLATE, MOTOR	

No.	Part No.	Description	Remarks
215	7-621-255-55	SCREW +P 2X8	
216	7-627-454-08	SCREW, PRECISION +K 2.6X3.5	
217	7-682-544-09	SCREW +B 3X3	
218	3-339-971-01	BUTTON, AMS	
901	A-3216-291-A	PC BOARD ASSY, MAIN	
904	A-3216-321-A	MOUNTED PCB, PS	
906	*1-624-924-11	PC BOARD, SW (L)	
907	*1-624-923-11	PC BOARD, SW (R)	
912	1-559-424-14	CORD (WITH CONNECTOR)	
913	1-559-539-11	CORD (WITH PLUG)	
F901	1-532-419-11	FUSE (3.15 A)	
F902	1-532-360-XX	FUSE (1 A)	
F903	1-532-360-XX	FUSE (1 A)	

REVISED

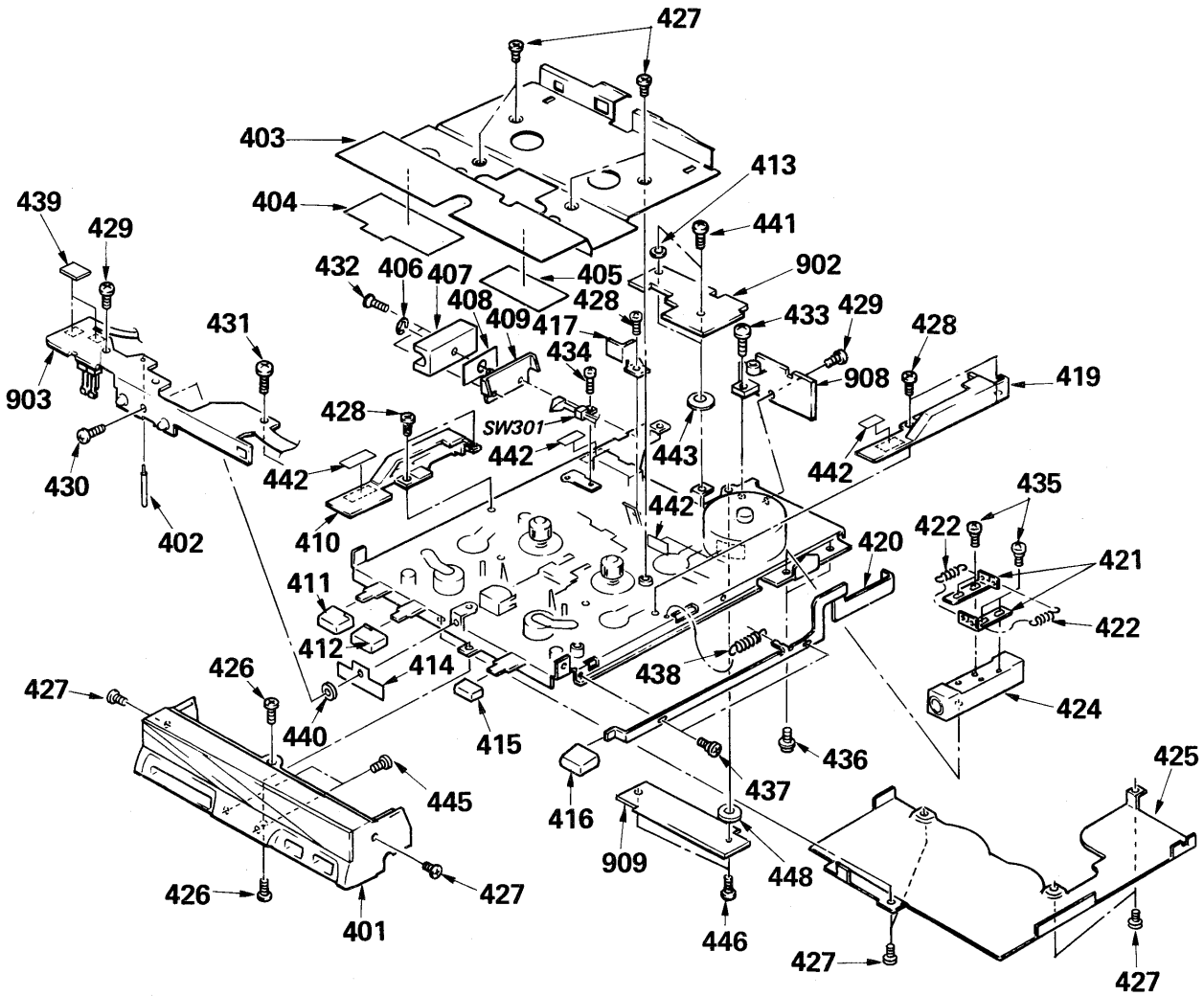
(2) LOWER CASE SECTION



No.	Part No.	Description	Remarks
301	*X-3339-905-3	CASE ASSY, LOWER	
302	*X-3339-904-1	BRACKET (LEFT) ASSY, SHAFT	
303	*3-342-429-01	COVER, SHEET	
304	3-342-428-01	WASHER	
305	*3-342-417-01	SHEET (G), INSULATING	
306	9-911-840-XX	CUSHION (A)	
307	*3-339-966-13	SHAFT, SLIDE	
308	3-342-419-01	ROPE, WIRE	
309	*3-339-966-02	SHAFT, SLIDE	
310	3-312-434-00	WASHER, SLIT	
311	4-913-251-01	GEAR (C), DRIVING	
312	3-339-964-01	GEAR (B)	
313	3-339-950-01	GEAR (A)	
314	3-817-114-11	PULLEY P8	
315	*4-826-732-01	CUSHION (MOTOR)	
316	*3-339-976-01	BRACKET, MOTOR WHEEL	
317	3-339-952-01	SHAFT, DRIVING WHEEL	
318	3-339-965-01	WHEEL, DRIVING	
319	7-624-104-04	STOP RING 2.0, TYPE -E	
320	*X-3339-902-3	BRACKET ASSY, PULLEY	

No.	Part No.	Description	Remarks
321	*X-3339-903-4	BRACKET (RIGHT) ASSY, SHAFT	
322	*3-342-433-01	SHEET (A), ADHESIVE	
323	*3-342-401-01	(US, AEP, E) ... LABEL, MODEL NUMBER (EXP)	
	*3-342-402-01	(Canadian) ... LABEL, MODEL NUMBER	
324	*3-342-416-01	SHEET (F), INSULATING	
325	7-627-454-08	SCREW, PRECISION +K 2.6X3.5	
326	7-621-775-08	SCREW +B 2.6X3	
327	7-627-850-28	SCREW, PRECISION +P 1.4X3	
328	3-703-502-31	SCREW, PRECISION +W 1.4X3	
329	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
330	7-682-544-04	SCREW +B 3X3	
331	7-682-546-04	SCREW +B 3X5	
332	*3-655-653-11	BAND (TAITON), BINDING	
333	3-305-239-00	LABEL, DOLBY	
905	1-622-171-12	PC BOARD, CONNECTOR (C)	
910	*1-623-310-11	PC BOARD, MOTOR	
911	*1-623-312-11	PC BOARD, REG	
M651	X-3339-906-1	MOTOR ASSY (LOADING)	
SW601	31-553-226-00	SWITCH, LEAF (OPENED SENSE)	
SW651	31-553-226-00	SWITCH, LEAF (CLOSED SENSE)	

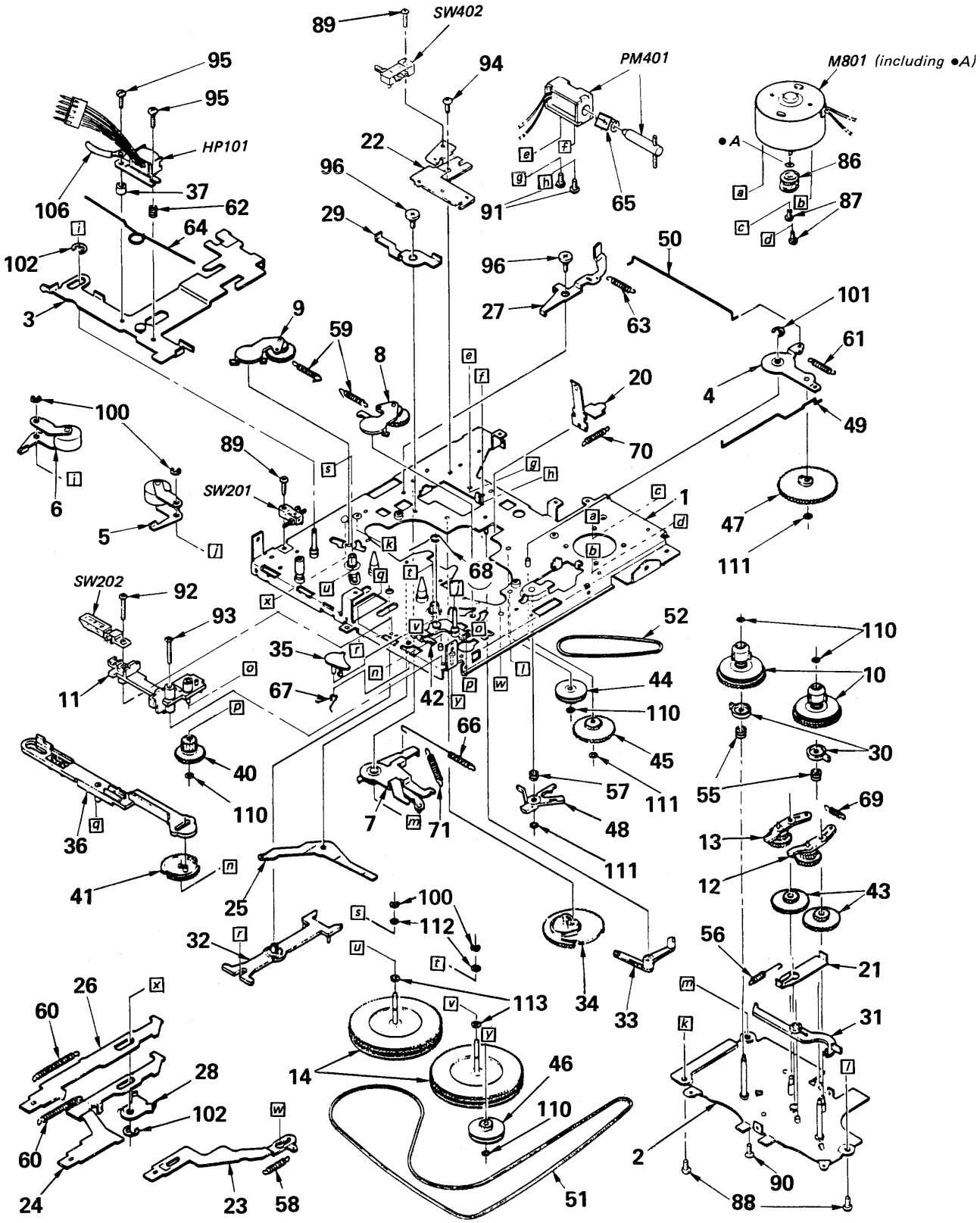
(3) CASSETTE DRAWER SECTION



No.	Part No.	Description	Remarks
401	A-3235-577-A	PIECE (C) ASSY, NOSE	
402	*3-314-051-00	CLAMP, LEAD	
403	*3-339-984-01	PLATE (UPPER), ORNAMENTAL, MD	
404	*3-342-426-01	SHEET (I), INSULATING	
405	*3-342-425-01	SHEET (H), INSULATING	
406	7-624-102-04	RING, RETAINING, E1.5	
407	3-339-958-03	GUIDE	
408	*3-342-422-01	CUSHION, GUIDE	
409	*X-3339-901-4	BRACKET ASSY, GUIDE	
410	3-339-981-01	GUIDE (LEFT), CASSETTE	
411	3-339-967-01	BUTTON, REW	
412	3-339-968-01	BUTTON, FF	
413	3-342-428-01	WASHER	
414	*3-339-998-01	SHEET (E), INSULATING	
415	3-339-970-01	BUTTON, DIR	
416	3-339-969-01	BUTTON, O/C	
417	3-339-985-01	HOUSE, LAMP	
419	3-339-982-01	GUIDE (RIGHT), CASSETTE	
420	3-339-979-01	LEVER, O/C	
421	4-913-209-11	SLIDER, WT	
422	3-578-277-00	SPRING, TENSION	
424	3-339-977-01	BEARING, SLIDE	
425	*3-339-986-01	PLATE (LOWER), ORNAMENTAL, MD	
426	7-627-852-28	+P 1.7X3	

No.	Part No.	Description	Remarks
427	7-627-852-38	SCREW, PRECISION +P1.7X1.8 TYPE3	
428	7-627-852-08	SCREW, PRECISION +P 1.7X2.5	
429	7-621-255-55	SCREW +P 2X8	
430	7-621-255-35	SCREW +P 2X5	
431	7-685-131-19	SCREW +P 2.6X4 TYPE2 NON-SLIT	
432	7-627-454-08	SCREW, PRECISION +K 2.6X3.5	
433	7-682-546-09	SCREW +B 3X5	
434	7-627-850-28	SCREW, PRECISION +P 1.4X3	
435	3-311-772-00	SHAFT (A), STOPPER	
436	3-669-607-00	+PSW (SMALL ROUND) 2.6	
437	3-339-962-01	SCREW, O/C LEVER FITTING	
438	3-533-373-00	SPRING, TENSION	
440	*3-339-997-01	SPACER	
441	7-621-255-15	SCREW +P 2X3	
442	*3-342-427-02	SHEET, FLEXIBLE BOARD	
443	3-342-444-01	WASHER (ADHEASIVE)	
445	3-309-597-31	SCREW (1.4), TAPPING,PRECISION	
446	7-621-255-25	SCREW +P 2X4	
448	*3-322-413-11	SPACER, INSULATING	
902	A-3216-293-A	MOUNTED PCB, MICRO COMPUTER	
903	A-3216-296-A	MOUNTED PCB, HEAD AMPLIFIER	
908	*1-624-926-11	PC BOARD, GOVERNOR	
909	*A-3213-671-A	MOUNTED PCB, DOLBY	
SW301	1-571-002-11	SWITCH, SLIDE (METAL)	

(4) TAPE TRANSPORT MECHANISM SECTION
(MG-77A-90)



No.	Part No.	Description	Remarks
1	*3-391-673-01	CHASSIS ASSY, MAIN	
2	*3-391-659-01	CHASSIS ASSY, SUB	
3	*3-391-660-01	CHASSIS ASSY, SLIDE	
4	*3-391-661-01	ARM ASSY, GEAR	
5	3-391-662-01	ARM (F) ASSY, PINCH ROLLER	
6	3-391-663-01	ARM (R) ASSY, PINCH ROLLER	
7	*3-391-664-01	LIMITER ASSY	
8	3-391-665-01	ARM (F) ASSY, FF	
9	3-391-666-01	ARM (R) ASSY, FF	
10	3-391-667-01	SPINDLE ASSY, REEL	
11	3-391-668-01	SELECTOR (TOP) ASSY	
12	3-391-669-01	ARM (F) ASSY, TU	
13	3-391-670-01	ARM (R) ASSY, TU	
14	3-391-671-01	FLYWHEEL ASSY	
20	3-391-674-01	PLATE (B), HOLD, CASSETTE	
21	*3-391-625-01	LEVER, CANCEL	
22	*3-391-626-01	BRACKET, SW	
23	*3-391-652-01	LEVER, DIR	
24	*3-391-653-01	LEVER, FF	
25	*3-391-648-01	LEVER, FF LINK	
26	*3-391-654-01	LEVER, REW	
27	*3-391-627-01	LATCH, FR	
28	*3-391-630-01	LOCK, FR INTER	
29	*3-391-633-01	LEVER, PUSH	
30	3-391-635-01	DISK, DETECTOR	
31	3-391-636-01	LEVER, DETECTOR LINK	
32	3-391-637-01	ARM, CONVERT	
33	3-391-641-01	LATCH, LOAD GEAR	
34	3-391-655-01	GEAR, LOAD CAM	
35	3-391-644-01	LATCH, GEAR	
36	3-391-656-01	LINKAGE, SELECTOR	
37	3-391-601-01	SPACER, HEAD	
40	3-594-307-01	GEAR, REDUCTION	
41	3-594-314-01	GEAR, SELECTOR	
42	3-594-318-01	RATCHET	
43	3-594-310-01	GEAR, COUNTER	
44	3-594-313-01	PULLEY, TU	
45	3-594-309-01	GEAR (D), REDUCTION	
46	3-594-308-01	PULLEY, IDLE	
47	3-594-322-01	GEAR, CAM	
48	3-594-312-01	DETECTOR	
49	3-391-602-01	LINK, AUTO DIR	
50	3-391-603-01	LINK, FR LATCH	
51	3-391-604-01	BELT, MAIN	
52	3-391-605-01	BELT, SUB	

No.	Part No.	Description	Remarks
55	3-391-606-01	SPRING, BACK TENTION	
56	3-391-607-01	SPRING, LEVER, CANCEL	
57	3-391-608-01	SPRING, DETECTOR	
58	3-391-609-01	SPRING, LEVER, DIR	
59	3-391-610-01	SPRING, ARM, FF	
60	3-391-611-01	SPRING, LEVER, FF	
61	3-391-613-01	SPRING, ARM, GEAR	
62	3-391-614-01	SPRING, AZIMUTH	
63	3-391-615-01	SPRING, LATCH, FR	
64	3-391-616-01	SPRING, PINCH ROLLER	
65	3-391-617-01	SPRING, PLUNGER	
66	3-391-618-01	SPRING, RETURN	
67	3-391-619-01	SPRING, LATCH, GEAR	
68	3-391-620-01	SPRING, RATCHET	
69	3-391-621-01	SPRING, ARM (TU)	
70	3-391-622-01	SPRING, HOLD, CASSETTE	
71	3-391-623-01	SPRING, LIMITER	
86	3-391-675-01	PULLEY (A), MOTOR	
87	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
88	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
89	7-627-853-58	SCREW, PRECISION +P 2X5 TYPE3	
90	7-621-555-10	SCREW +K 2X3	
91	7-621-772-08	SCREW +B 2X3	
92	7-621-772-58	SCREW +B 2X10	
93	7-621-772-68	SCREW +B 2X12	
94	7-685-790-04	SCREW +PTT 2.6X4 (S)	
95	3-590-786-00	SCREW, BIND	
96	3-391-612-01	SCREW, SPECIAL	
100	7-624-102-04	STOP RING 1.5, TYPE -E	
101	7-624-104-04	STOP RING 2.0, TYPE -E	
102	7-624-106-04	STOP RING 3.0, TYPE -E	
106	7-623-505-01	LUG, 2	
110	3-570-615-00	POLY-WASHER (DIA.1.2)	
111	3-676-387-00	POLY-SLIDER (DIA.1.6)	
112	3-701-437-11	WASHER (DIA.2.0)	
113	3-701-437-01	WASHER (DIA.2.0)	
HP101	11-543-413-11	HEAD, MAGNETIC (PLAYBACK)	
M801	13-391-672-01	MOTOR ASSY (CAPSTAN)	
PM401	11-454-359-00	SOLENOID, PLUNGER	
SW201	11-571-004-11	SWITCH, PUSH (1 KEY)(PLAY SENSE)	
SW202	11-571-003-11	SWITCH, LEAF (MUTING)	
SW402	11-571-004-11	SWITCH, PUSH (1 KEY)(FR MUTING)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	A-3216-291-A	PC BOARD ASSY, MAIN			
902	A-3216-293-A	MOUNTED PCB, MICRO COMPUTER			
903	A-3216-296-A	MOUNTED PCB, HEAD AMPLIFIER			
904	A-3216-321-A	MOUNTED PCB, PS			
905	1-622-171-12	PC BOARD, CONNECTOR (C)			
906	*1-624-924-11	PC BOARD, SW (L)			
907	*1-624-923-11	PC BOARD, SW (R)			
908	*1-624-926-11	PC BOARD, GOVERNOR			
909	*A-3213-671-A	MOUNTED PCB, DOLBY			
910	*1-623-310-11	PC BOARD, MOTOR			
911	*1-623-312-11	PC BOARD, REG			
912	1-559-424-14	CORD (WITH CONNECTOR)			
913	1-559-539-11	CORD (WITH PLUG)			
C001	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V
C101	1-119-501-00	ELECT	1MF	20%	25V
C102	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C103	1-131-386-00	TANTALUM	33MF	10%	3.15V
C104	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C105	1-124-234-00	ELECT	22MF	20%	10V
C151	1-119-501-00	ELECT	1MF	20%	25V
C152	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C153	1-131-386-00	TANTALUM	33MF	10%	3.15V
C154	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C301	1-163-034-00	CERAMIC CHIP	0.033MF		50V
C302	1-131-345-00	TANTALUM	0.47MF	20%	35V
C304	1-136-491-00	FILM	0.033MF	5%	50V
C305	1-130-479-00	MYLAR	0.0047MF	5%	50V
C306	1-124-462-00	ELECT	10MF	20%	6.3V
C307	1-124-432-00	ELECT	47MF	20%	4V
C308	1-136-493-00	FILM	0.047MF	5%	50V
C309	1-131-402-00	TANTALUM	0.1MF	20%	35V
C310	1-131-345-00	TANTALUM	0.47MF	20%	35V
C351	1-163-034-00	CERAMIC CHIP	0.033MF		50V
C352	1-131-345-00	TANTALUM	0.47MF	20%	35V
C354	1-136-491-00	FILM	0.033MF	5%	50V
C355	1-130-479-00	MYLAR	0.0047MF	5%	50V
C356	1-124-462-00	ELECT	10MF	20%	6.3V
C357	1-124-432-00	ELECT	47MF	20%	4V
C358	1-136-493-00	FILM	0.047MF	5%	50V
C359	1-131-345-00	TANTALUM	0.47MF	20%	35V
C360	1-131-402-00	TANTALUM	0.1MF	20%	35V
C371	1-124-584-00	ELECT	100MF	20%	10V
C372	1-124-434-00	ELECT	220MF	20%	4V
C401	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C402	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C403	1-124-465-00	ELECT	0.47MF	20%	50V
C404	1-124-257-00	ELECT	2.2MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C405	1-124-257-00	ELECT	2.2MF	20%	50V
C406	1-124-255-00	ELECT	1MF	20%	50V
C408	1-124-462-00	ELECT	10MF	20%	10V
C409	1-124-464-11	ELECT	0.22MF	20%	50V
C501	1-124-255-00	ELECT	1MF	20%	50V
C551	1-124-255-00	ELECT	1MF	20%	50V
C603	1-124-242-00	ELECT	33MF	20%	16V
C604	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C605	1-124-222-00	ELECT	22MF	20%	6.3V
C606	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C607	1-124-234-00	ELECT	22MF	20%	16V
C608	1-124-258-00	ELECT	3.3MF	20%	50V
C651	1-124-234-00	ELECT	22MF	20%	16V
C652	1-161-494-00	CAP, CERAMIC	0.022MF		
C801	1-124-257-00	ELECT	2.2MF	20%	50V
C802	1-126-101-11	ELECT	100MF	20%	16V
C803	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C901	1-124-462-00	ELECT	10MF	20%	16V
C902	1-124-236-00	ELECT	47MF	20%	16V
C903	1-124-462-00	ELECT	10MF	20%	16V
C904	1-124-462-00	ELECT	10MF	20%	16V
C905	1-124-236-00	ELECT	47MF	20%	16V
C906	1-124-236-00	ELECT	47MF	20%	16V
C907	1-124-236-00	ELECT	47MF	20%	16V
C909	1-124-255-00	ELECT	47MF	20%	16V
CN404	1-563-932-11	CONNECTOR, F.P.C 21P			
CN406	1-562-886-11	CONNECTOR, F.P.C 12P			
CN601	*1-562-664-11	SOCKET, CONNECTOR 21P			
CN603	*1-564-007-00	PIN, CONNECTOR 8P			
CN607	*1-564-001-11	PIN, CONNECTOR 2P			
CNJ301	1-562-631-11	SOCKET, CONNECTOR			
CNP701	*1-564-004-00	PIN, CONNECTOR 5P			
CNP801	*1-564-003-00	PIN, CONNECTOR 4P			
D002	8-719-801-67	DIODE DLS1585			
D101	8-719-109-97	DIODE RD6.8ESB2			
D201	8-719-946-77	DIODE AA1101P			
D202	8-719-946-77	DIODE AA1101P			
D203	8-719-946-77	DIODE AA1101P			
D204	8-719-946-77	DIODE AA1101P			
D205	8-719-946-78	DIODE VR1101P			
D401	8-719-100-03	DIODE 1S2835			
D601	8-719-109-51	DIODE RD2.0ES-B2			
D602	8-719-801-67	DIODE DLS1585			
D604	8-719-106-23	DIODE RD7.5M-B2			
D605	8-719-945-59	DIODE DSA3A4			

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
D606	8-719-801-67	DIODE DLS1585
D651	8-719-106-54	DIODE RD10M-B3
D901	8-719-109-93	DIODE RD6.2ES-B2
D902	8-719-109-97	DIODE RD6.8ES-B2
D903	8-719-110-17	DIODE RD10ES-B2
D904	8-719-100-03	DIODE 1S2835
F901	1-532-419-11	FUSE (3.15 A)
F902	1-532-360-XX	FUSE (1 A)
F903	1-532-360-XX	FUSE (1 A)
HP101	1-543-413-11	HEAD, MAGNETIC (PLAYBACK)
IC101	8-759-105-60	IC UPC1228HA
IC301	8-759-105-48	IC UPC1284G
IC401	8-759-941-15	IC MB88201-550K
IC402	8-759-905-47	IC BA338
IC601	8-759-941-14	IC MB88202-549M
IC651	8-759-600-24	IC M54543L
IC801	8-759-140-74	IC UPC1470H-X
JW003	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW004	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW104	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW105	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW301	1-249-997-11	CARBON MELF 0 5% 1/8W
JW302	1-249-997-11	CARBON MELF 0 5% 1/8W
JW303	1-249-997-11	CARBON MELF 0 5% 1/8W
JW304	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW305	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW306	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW404	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW405	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW406	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW407	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW408	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW409	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW604	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW605	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW652	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW903	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW905	1-216-295-00	METAL GLAZE 0 5% 1/10W
L801	1-410-814-11	INDUCTOR 3.3UH
L901	1-410-838-11	INDUCTOR 330UH
L902	1-410-838-11	INDUCTOR 330UH
M651	X-3339-906-1	MOTOR ASSY (LOADING)
M801	3-391-672-01	MOTOR ASSY (CAPSTAN)
PL201	1-518-626-11	LAMP, PILOT
PL202	1-518-626-11	LAMP, PILOT
PL401	1-518-604-11	LAMP, PILOT
PL701	1-518-626-11	LAMP, PILOT
PM401	1-454-359-00	SOLENOID, PLUNGER
Q205	8-729-901-00	TRANSISTOR DTC124EK
Q301	8-729-100-67	TRANSISTOR 2SC1623-L7
Q302	8-729-100-67	TRANSISTOR 2SC1623-L7
Q351	8-729-100-67	TRANSISTOR 2SC1623-L7
Q352	8-729-100-67	TRANSISTOR 2SC1623-L7
Q371	8-729-901-00	TRANSISTOR DTC124EK
Q401	8-729-901-00	TRANSISTOR DTC124EK
Q405	8-729-101-07	TRANSISTOR 2SB798
Q406	8-729-100-67	TRANSISTOR 2SC1623-L7
Q501	8-729-100-67	TRANSISTOR 2SC1623-L7
Q551	8-729-100-67	TRANSISTOR 2SC1623-L7
Q601	8-729-901-00	TRANSISTOR DTC124EK

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q602	8-729-901-00	TRANSISTOR DTC124EK
Q603	8-729-116-42	TRANSISTOR 2SD1164
Q604	8-729-901-00	TRANSISTOR DTC124EK
Q605	8-729-100-67	TRANSISTOR 2SC1623-L7
Q606	8-729-901-00	TRANSISTOR DTC124EK
Q607	8-729-901-00	TRANSISTOR DTC124EK
Q608	8-729-901-00	TRANSISTOR DTC124EK
Q609	8-729-901-00	TRANSISTOR DTC124EK
Q610	8-729-901-01	TRANSISTOR DTC144EK
Q611	8-729-901-05	TRANSISTOR DTA124EK
Q612	8-729-100-67	TRANSISTOR 2SC1623-L7
Q613	8-729-100-67	TRANSISTOR 2SC1623-L7
Q614	8-729-901-05	TRANSISTOR DTA124EK
Q615	8-729-901-05	TRANSISTOR DTA124EK
Q651	8-729-901-05	TRANSISTOR DTA124EK
Q652	8-729-188-23	TRANSISTOR 2SD882
Q653	8-729-100-67	TRANSISTOR 2SC1623-L7
Q901	8-729-188-23	TRANSISTOR 2SD882
Q902	8-729-901-47	TRANSISTOR DTA143EK
Q903	8-729-100-67	TRANSISTOR 2SC1623-L7
Q904	8-729-177-43	TRANSISTOR 2SD774
Q905	8-729-901-00	TRANSISTOR DTC124EK
R001	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R101	1-216-027-00	METAL GLAZE 120 5% 1/10W
R102	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W
R103	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R104	1-216-025-00	METAL GLAZE 100 5% 1/10W
R151	1-216-027-00	METAL GLAZE 120 5% 1/10W
R152	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W
R153	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R201	1-216-035-00	METAL GLAZE 270 5% 1/10W
R202	1-216-035-00	METAL GLAZE 270 5% 1/10W
R203	1-216-035-00	METAL GLAZE 270 5% 1/10W
R204	1-216-035-00	METAL GLAZE 270 5% 1/10W
R205	1-216-035-00	METAL GLAZE 270 5% 1/10W
R206	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R301	1-249-349-11	CARBON MELF 15K 5% 1/8W
R302	1-216-043-00	CARBON MELF 560 5% 1/8W
R303	1-249-353-11	CARBON MELF 33K 5% 1/8W
R304	1-249-338-00	CARBON MELF 1.8K 5% 1/8W
R305	1-249-345-11	CARBON MELF 6.8K 5% 1/8W
R306	1-249-341-11	CARBON MELF 3.3K 5% 1/8W
R307	1-249-355-11	CARBON MELF 47K 5% 1/8W
R308	1-216-116-00	METAL GLAZE 620K 5% 1/10W
R309	1-249-362-11	CARBON MELF 180K 5% 1/8W
R351	1-249-349-11	CARBON MELF 15K 5% 1/8W
R352	1-216-043-00	CARBON MELF 560 5% 1/8W
R353	1-249-353-11	CARBON MELF 33K 5% 1/8W
R354	1-249-338-11	CARBON MELF 1.8K 5% 1/8W
R355	1-249-345-11	CARBON MELF 6.8K 5% 1/8W
R356	1-249-341-11	CARBON MELF 3.3K 5% 1/8W
R357	1-249-355-11	CARBON MELF 47K 5% 1/8W
R358	1-216-116-00	METAL GLAZE 620K 5% 1/10W
R359	1-249-362-11	CARBON MELF 180K 5% 1/8W
R371	1-249-353-11	CARBON MELF 33K 5% 1/8W
R372	1-249-339-11	CARBON MELF 2.2K 5% 1/8W
R375	1-249-345-11	CARBON MELF 6.8K 5% 1/8W
R401	1-216-073-00	METAL GLAZE 10K 5% 1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R402	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R403	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R405	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R406	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R407	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R408	1-216-046-00	METAL GLAZE	1.5K	5%	1/10W	
R409	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R410	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R411	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R412	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R450	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R501	1-249-336-11	CARBON MELF	1.2K	5%	1/8W	
R502	1-249-350-11	CARBON MELF	18K	5%	1/8W	
R503	1-249-333-11	CARBON MELF	680	5%	1/8W	
R504	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R551	1-249-336-11	CARBON MELF	1.2K	5%	1/8W	
R552	1-249-350-11	CARBON MELF	18K	5%	1/8W	
R553	1-249-333-11	CARBON MELF	680	5%	1/8W	
R554	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R601	1-247-743-11	CARBON	220	5%	1/2W	
R602	1-247-735-11	CARBON	47	5%	1/2W	
R604	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R605	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R606	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R607	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R608	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R609	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R610	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R611	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R612	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R613	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R614	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R615	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R616	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R651	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R652	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R653	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R654	1-249-478-11	CARBON	2.2	5%	1/2W	F
R701	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R702	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R703	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R801	1-216-044-00	METAL GLAZE	620	5%	1/10W	
R802	1-216-032-00	METAL GLAZE	200	5%	1/10W	
R803	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R805	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R901	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R904	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R905	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R906	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R907	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R908	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R998	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W	
R999	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV301	1-230-524-11	RES, ADJ, METAL GLAZE 22K
RV351	1-230-524-11	RES, ADJ, METAL GLAZE 22K
RV801	1-230-329-11	RES, ADJ, CARBON 470 (SPEED ADJ)
SW101	1-571-002-11	SWITCH, SLIDE
SW201	1-571-004-11	SWITCH, PUSH (1 KEY)(PLAY SENSE)
SW202	1-571-003-11	SWITCH, LEAF (MUTING)
SW203	1-554-024-00	SWITCH, LEAF (FF SENSE)(▶▶)
SW204	1-554-024-00	SWITCH, LEAF (REW SENSE)(◀◀)
SW301	1-571-002-11	SWITCH, SLIDE (METAL)
SW401	1-570-953-11	SWITCH, PUSH (1 KEY)(TAPE SENSE)
SW402	1-571-004-11	SWITCH, PUSH (1 KEY)(FR MUTING)
SW601	1-553-226-00	SWITCH, LEAF (OPENED SENSE)
SW651	1-553-226-00	SWITCH, LEAF (CLOSED SENSE)
SW701	1-554-937-11	SWITCH, KEY BOARD (STOP)(■)
SW702	1-554-937-11	SWITCH, KEY BOARD (PLAY)(▶)
SW703	1-571-005-11	SWITCH, PUSH (1 KEY)(DOLBY NR)
SW704	1-571-005-11	SWITCH, PUSH (1 KEY)(AMS)
SW801	1-570-953-11	SWITCH, PUSH (1 KEY)(OPEN/CLOSE)(▲)
TH801	1-807-762-11	THERMISTOR, POSITIVE (1.5K 3600RPM)

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-310-655-01	SUPPORT (ND), FITTING
3-315-736-21	BRACKET, NEW D
3-320-636-01	BAG (C), PROTECTION
3-339-927-01	SPACER
3-339-994-01	INDIVIDUAL CARTON
3-339-941-01	CUSHION (F&R)
*3-342-438-01	CASE, RECEIVE
3-701-613-01	BAG, POLYETHYLENE
3-701-628-00	BAG, POLYETHYLENE
3-764-704-11	(AEP,E).....FITTING DRAWING
3-764-704-21	(US,Canadian)...FITTING DRAWING
3-764-704-31	(Canadian).....FITTING DRAWING
3-764-704-41	(AEP,E).....FITTING DRAWING
3-769-393-11	MANUAL, INSTRUCTION
3-769-393-41	(AEP,E)...MANUAL, INSTRUCTION
3-795-515-30	(Canadian)...CARD, WARRANTY
7-682-261-09	SCREW +K 4X8
X-3315-702-1	SCREW ASSY (25MM), FITTING

9-952-990-11

Sony Corporation
Audio Group

English
87K0688-1
Printed in Japan
©1987.11

XK-8D

SONY®

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject:
Following parts can be supplied for replacement.

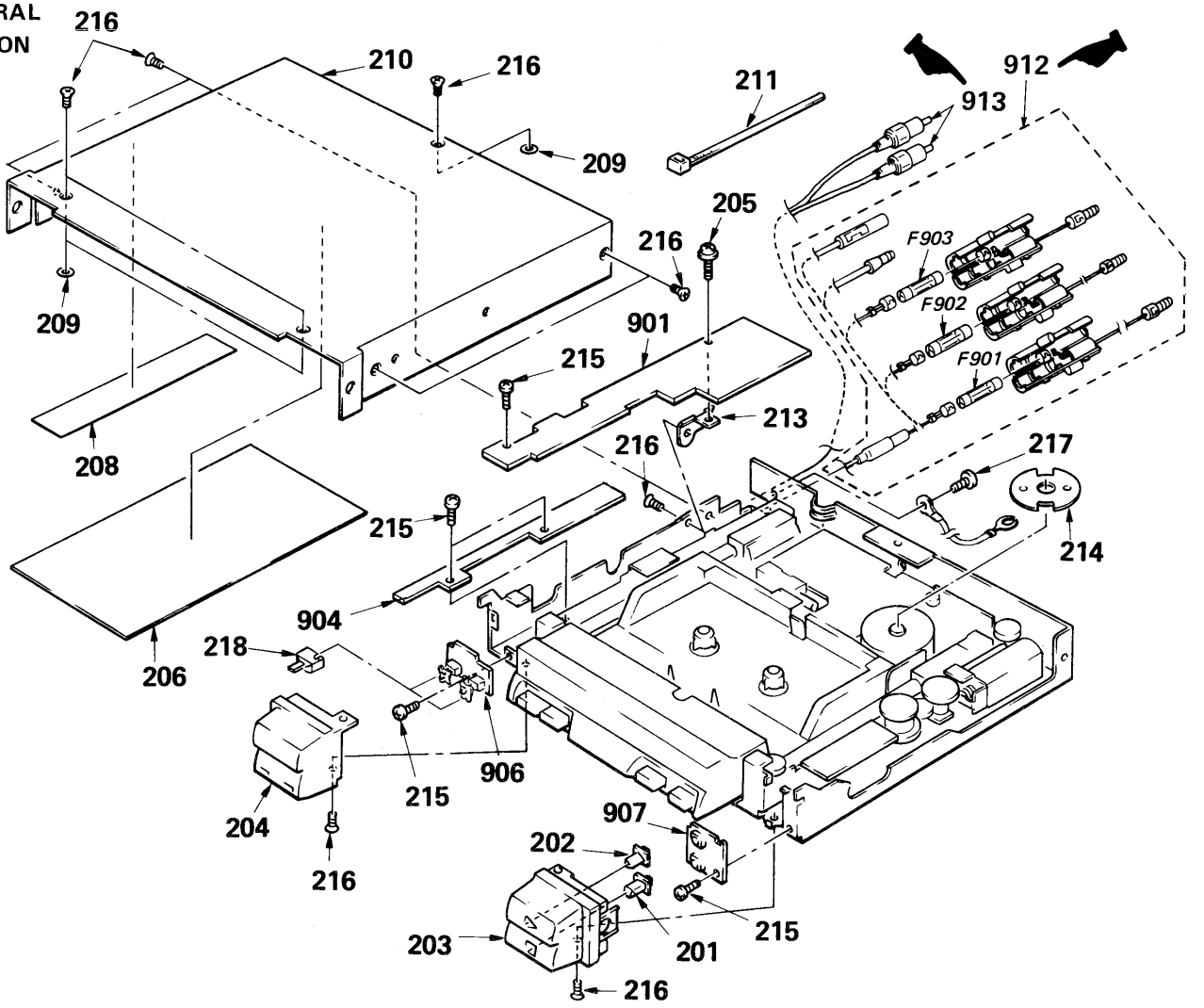
1. The patterns of several mounted boards have been modified.
   Mounted boards which have been modified.
   - GABANA board
   - Micro computer board
   - Dolby board
   - PS board
   - Main board
   - Motor board
   - SW R board
   - SW L board
2. The REG board has been discontinued.
   The REG circuit has been built into the motor board.

1. SECTION 4 EXPLODED VIEWS (Service Manual pages 17, 18.)

: added portion

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts
  Example: (RED) ..... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

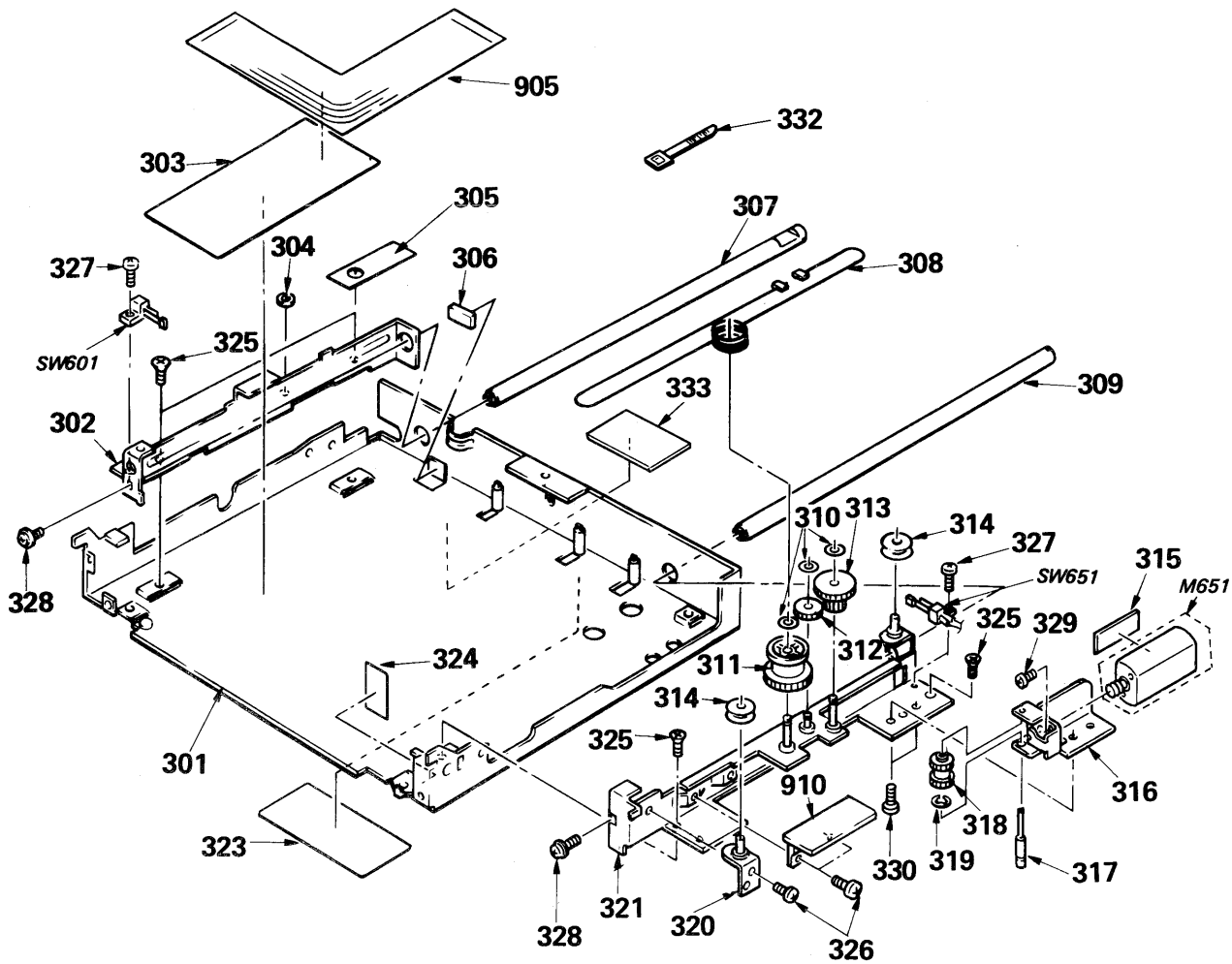
(1) GENERAL SECTION



No.	Part No.	Description	Remarks
201	3-339-945-01	BUTTON, STOP	
202	3-339-944-01	BUTTON, PLAY	
203	3-339-972-01	PIECE (RIGHT), NOSE	
204	3-339-983-11	PIECE (LEFT), NOSE	
205	7-621-255-35	SCREW, LOCK	
206	*3-342-439-02	PLATE, SHIELD	
208	*3-342-434-02	SHEET (J)	
209	3-342-428-01	WASHER	
210	*3-339-987-02	LID, UPPER	
211	*3-671-893-00	CLAMP (LOW TYPE)	
213	*3-342-404-03	HOLDER, PC BOARD	
214	*3-342-423-01	SHIELD PLATE, MOTOR	

No.	Part No.	Description	Remarks
215	7-621-255-55	SCREW +P 2X8	
216	7-627-454-08	SCREW, PRECISION +K 2.6X3.5	
217	7-682-544-09	SCREW +B 3X3	
218	3-339-971-01	BUTTON, AMS	
901		PC BOARD ASSY, MAIN	
904		MOUNTED PCB, PS	
906	*1-624-924-11	PC BOARD, SW (L)	
907	*1-624-923-11	PC BOARD, SW (R)	
912	1-559-424-14	CORD (WITH CONNECTOR)	
913	1-559-539-11	CORD (WITH PLUG)	
F901	1-532-419-11	FUSE (3.15 A)	
F902	1-532-360-XX	FUSE (1 A)	
F903	1-532-360-XX	FUSE (1 A)	

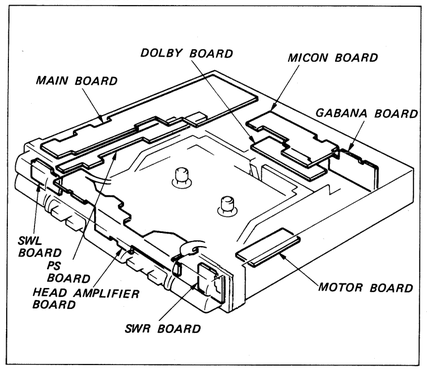
(2) LOWER CASE SECTION



No.	Part No.	Description	Remarks
301	*X-3339-905-3	CASE ASSY, LOWER	
302	*X-3339-904-1	BRACKET (LEFT) ASSY, SHAFT	
303	*3-342-429-01	COVER, SHEET	
304	3-342-428-01	WASHER	
305	*3-342-417-01	SHEET (G), INSULATING	
306	9-911-840-XX	CUSHION (A)	
307	*3-339-966-13	SHAFT, SLIDE	
308	3-342-419-01	ROPE, WIRE	
309	*3-339-966-02	SHAFT, SLIDE	
310	3-312-434-00	WASHER, SLIT	
311	4-913-251-01	GEAR (C), DRIVING	
312	3-339-964-01	GEAR (B)	
313	3-339-950-01	GEAR (A)	
314	3-817-114-11	PULLEY P8	
315	*4-826-732-01	CUSHION (MOTOR)	
316	*3-339-976-01	BRACKET, MOTOR WHEEL	
317	3-339-952-01	SHAFT, DRIVING WHEEL	
318	3-339-965-01	WHEEL, DRIVING	
319	7-624-104-04	STOP RING 2.0, TYPE -E	
320	*X-3339-902-3	BRACKET ASSY, PULLEY	
321	*X-3339-903-4	BRACKET (RIGHT) ASSY, SHAFT	
323	*3-342-401-01	(US, AEP, E) ... LABEL, MODEL NUMBER (EXP)	
	*3-342-402-01	(Canadian) ... LABEL, MODEL NUMBER	
324	*3-342-416-01	SHEET (F), INSULATING	
325	7-627-454-08	SCREW, PRECISION +K 2.6X3.5	
326	7-621-773-93	SCREW +B 2.6X3	
327	7-627-850-28	SCREW, PRECISION +P 1.4X3	
328	3-703-502-31	SCREW, PRECISION +W 1.4X3	
329	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
330	7-682-544-04	SCREW +B 3X3	
332	*3-655-653-11	BAND (TAITON), BINDING	
333	3-305-239-00	LABEL, DOLBY	
905	1-622-171-12	PC BOARD, CONNECTOR (C)	
910	*1-624-922-11	PC BOARD, MOTOR	
M651	X-3339-906-1	MOTOR ASSY (LOADING)	
SW601	31-553-226-00	SWITCH, LEAF (OPENED SENSE)	
SW651	31-553-226-00	SWITCH, LEAF (CLOSED SENSE)	

3. PRINTED WIRING BOARDS (Service Manual Pages 8–10.)

CIRCUIT BOARDS LOCATION

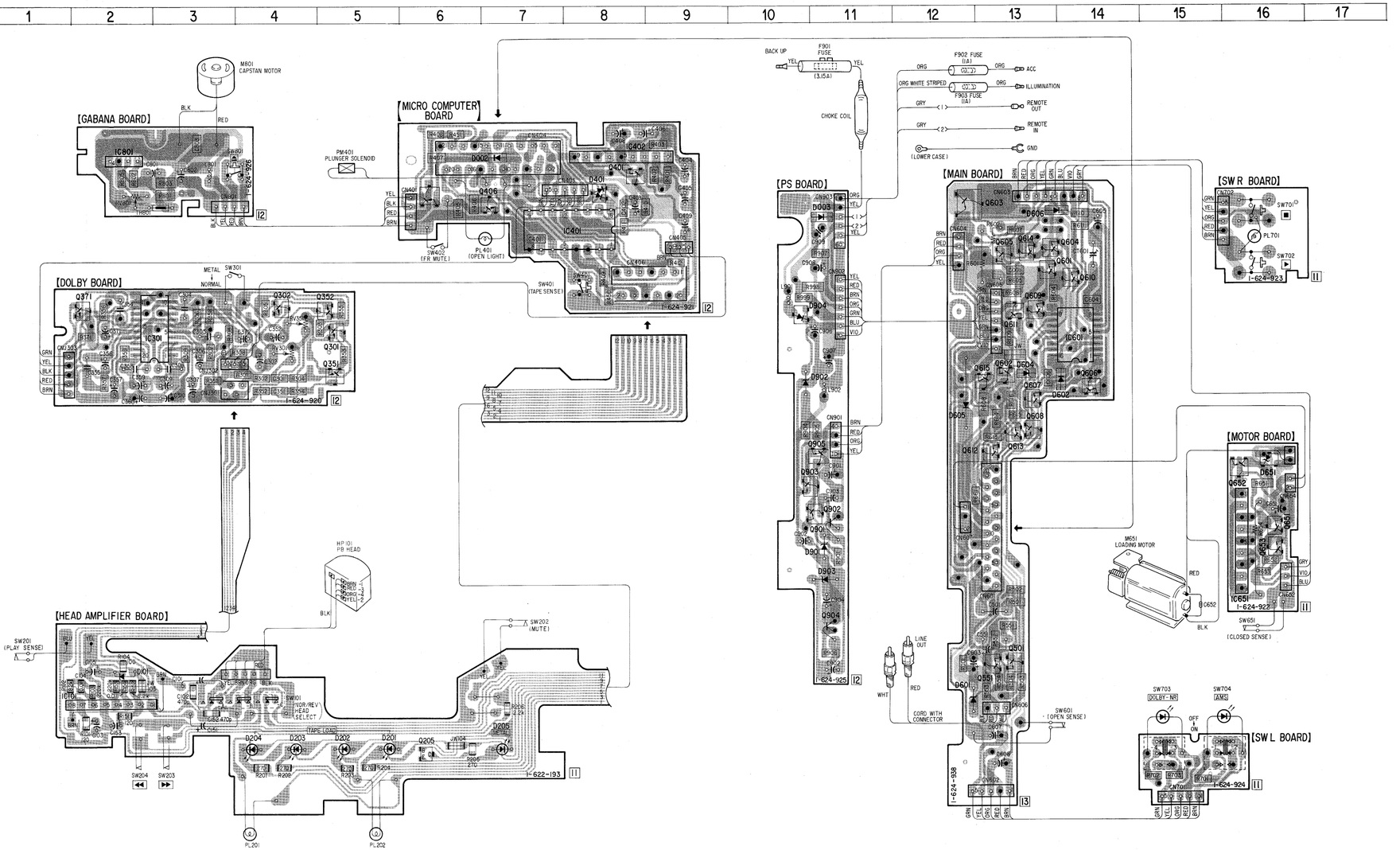


- **Semiconductor Location**

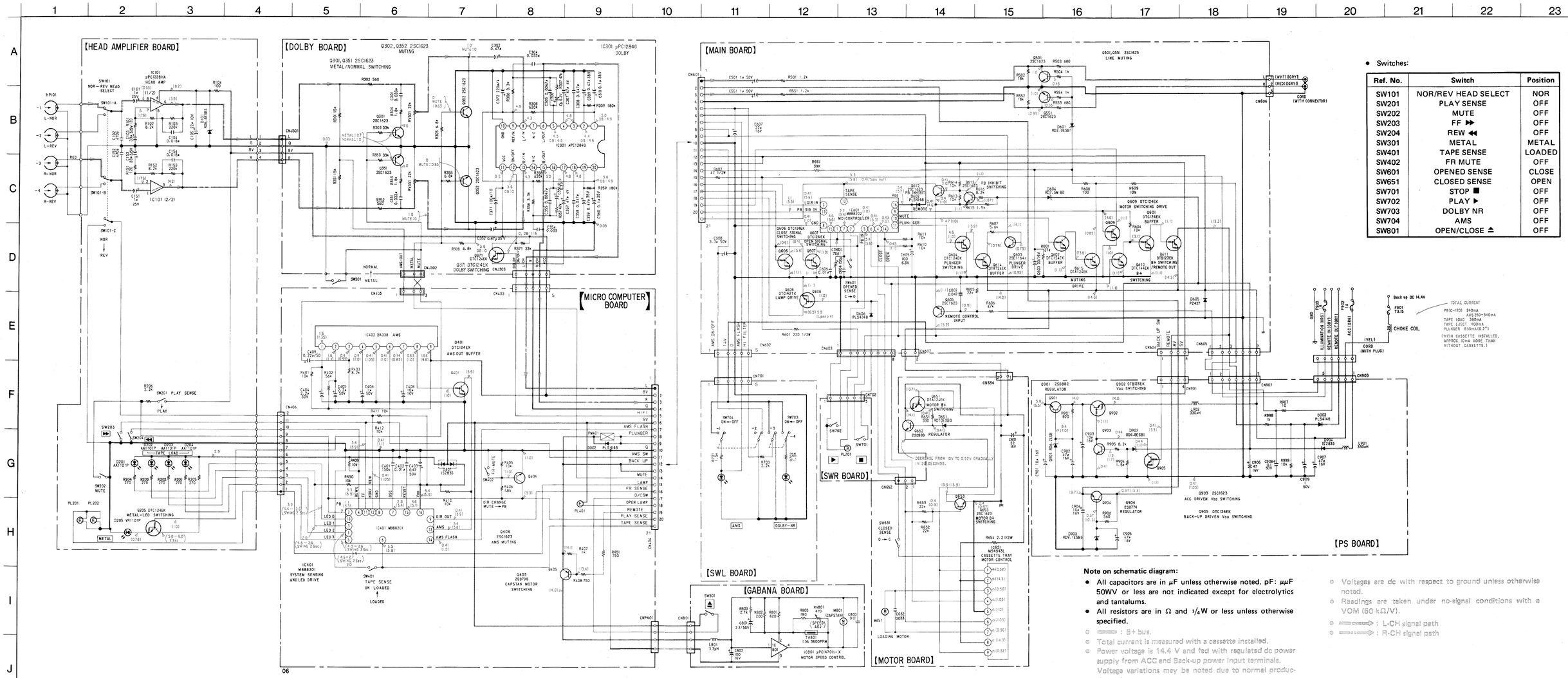
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D002	B-7	IC301	D-2	Q603	C-13
D003	C-11	IC401	C-8	Q604	C-13
D101	H-2	IC402	B-8	Q605	C-13
D201	I-5	IC601	D-14	Q606	E-14
D202	I-5	IC651	G-16	Q607	E-13
D203	I-4	IC801	B-2	Q608	E-13
D204	I-4			Q609	D-13
D205	I-7	Q205	I-6	Q610	D-14
D401	B-8	Q301	D-5	Q611	D-13
D601	I-12	Q302	D-4	Q612	F-13
D602	E-14	Q351	E-5	Q613	E-13
D604	E-13	Q352	D-5	Q614	C-13
D605	E-12	Q371	D-2	Q615	E-13
D606	C-13	Q401	C-8	Q651	G-16
D651	F-16	Q405	C-6	Q652	F-16
D901	G-11	Q406	C-7	Q653	G-16
D902	E-10	Q501	H-13	Q901	G-11
D903	G-11	Q551	H-13	Q902	F-11
D904	D-10	Q601	C-13	Q903	F-11
IC101	I-2	Q602	E-13	Q904	M-11
				Q905	F-11

Note on printed wiring boards:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : indicates side identified with part number.
- ⊗ : Through hole.
- ▨ : component-side pattern.



4. SCHEMATIC DIAGRAM (Service Manual Pages 11 — 13.)



- Switches:

Ref. No.	Switch	Position
SW101	NOR/REV HEAD SELECT	NOR
SW201	PLAY SENSE	OFF
SW202	MUTE	OFF
SW203	FF ▶▶	OFF
SW204	REW ◀◀	OFF
SW301	METAL	METAL
SW401	TAPE SENSE	LOADED
SW402	FR MUTE	OFF
SW601	OPENED SENSE	CLOSE
SW651	CLOSED SENSE	OPEN
SW701	STOP ■	OFF
SW702	PLAY ▶	OFF
SW703	DOLBY NR	OFF
SW704	AMS	OFF
SW801	OPEN/CLOSE ⏏	OFF

Note on schematic diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ⊙ ═══ : B+ bus.
- ⊙ Total current is measured with a cassette installed.
- ⊙ Power voltage is 14.4 V and fed with regulated dc power supply from ACC and Back-up power input terminals. Voltage variations may be noted due to normal production tolerances.
- ⊙ Voltages are dc with respect to ground unless otherwise noted.
- ⊙ Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
- ⊙ ═══▷ : L-CH signal path
- ⊙ ═══▷ : R-CH signal path

5. SECTION 5 ELECTRICAL PARTS LIST (Service Manual Pages 22—24.)

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901		PC BOARD ASSY, MAIN			
902		MOUNTED PCB, MICRO COMPUTER			
903		MOUNTED PCB, HEAD AMPLIFIER			
904		MOUNTED PCB, PS			
905	1-622-171-13	PC BOARD, CONNECTOR (C)			
906	*1-624-924-11	PC BOARD, SW (L)			
907	*1-624-923-11	PC BOARD, SW (R)			
908	*1-624-926-12	PC BOARD, GOVERNOR			
909		MOUNTED PCB, DOLBY			
910	*1-624-922-11	PC BOARD, MOTOR			
912	1-559-424-15	CORD (WITH CONNECTOR)			
913	1-559-539-11	CORD (WITH PLUG)			
C001	1-163-035-00	CERAMIC CHIP	0.047MF	10%	25V
C101	1-119-501-00	ELECT	1MF	20%	25V
C102	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C103	1-131-386-00	TANTALUM	33MF	10%	3.15V
C104	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C105	1-124-234-00	ELECT	22MF	20%	10V
C151	1-119-501-00	ELECT	1MF	20%	25V
C152	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C153	1-131-386-00	TANTALUM	33MF	10%	3.15V
C154	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V
C301	1-163-034-00	CERAMIC CHIP	0.033MF		50V
C302	1-131-345-00	TANTALUM	0.47MF	20%	35V
C304	1-136-491-00	FILM	0.033MF	5%	50V
C305	1-130-479-00	MYLAR	0.0047MF	5%	50V
C306	1-124-462-00	ELECT	10MF	20%	6.3V
C307	1-124-432-00	ELECT	47MF	20%	4V
C308	1-136-493-00	FILM	0.047MF	5%	50V
C309	1-131-345-00	TANTALUM	0.47MF	20%	35V
C310	1-131-341-00	TANTALUM	0.1MF	20%	35V
C351	1-163-034-00	CERAMIC CHIP	0.033MF		50V
C352	1-131-345-00	TANTALUM	0.47MF	20%	35V
C354	1-136-491-00	FILM	0.033MF	5%	50V
C355	1-130-479-00	MYLAR	0.0047MF	5%	50V
C356	1-124-462-00	ELECT	10MF	20%	6.3V
C357	1-124-432-00	ELECT	47MF	20%	4V
C358	1-136-493-00	FILM	0.047MF	5%	50V
C359	1-131-345-00	TANTALUM	0.47MF	20%	35V
C360	1-131-402-00	TANTALUM	0.1MF	20%	35V
C371	1-124-584-00	ELECT	100MF	20%	10V
C372	1-124-434-00	ELECT	220MF	20%	4V
C401	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C402	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C403	1-124-465-00	ELECT	0.47MF	20%	50V
C404	1-124-257-00	ELECT	2.2MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C405	1-124-257-00	ELECT	2.2MF	20%	50V
C406	1-124-255-00	ELECT	1MF	20%	50V
C408	1-124-462-00	ELECT	10MF	20%	10V
C409	1-124-464-11	ELECT	0.22MF	20%	50V
C501	1-124-255-00	ELECT	1MF	20%	50V
C551	1-124-255-00	ELECT	1MF	20%	50V
C603	1-124-242-00	ELECT	33MF	20%	16V
C604	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C605	1-124-225-11	ELECT	100MF	20%	6.3V
C606	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C607	1-124-234-00	ELECT	22MF	20%	16V
C608	1-124-258-00	ELECT	3.3MF	20%	50V
C651	1-124-234-00	ELECT	22MF	20%	16V
C652	1-163-034-91	CAP, CERAMIC	0.033MF		
C801	1-124-257-00	ELECT	2.2MF	20%	50V
C802	1-126-101-11	ELECT	100MF	20%	16V
C803	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V
C901	1-124-462-00	ELECT	10MF	20%	16V
C902	1-124-236-00	ELECT	47MF	20%	16V
C903	1-124-462-00	ELECT	10MF	20%	16V
C904	1-124-462-00	ELECT	10MF	20%	16V
C905	1-124-236-00	ELECT	47MF	20%	16V
C906	1-124-236-00	ELECT	47MF	20%	16V
C907	1-124-236-00	ELECT	47MF	20%	16V
C908	1-124-249-11	ELECT	0.1MF	20%	50V
C909	1-124-255-11	ELECT	1MF	20%	50V
CN404	1-563-932-11	CONNECTOR, F.P.C 21P			
CN406	1-562-886-11	CONNECTOR, F.P.C 12P			
CN601	*1-562-664-11	SOCKET, CONNECTOR 21P			
CN603	*1-564-007-00	PIN, CONNECTOR 8P			
CN607	*1-564-001-11	PIN, CONNECTOR 2P			
CNJ301	1-562-631-11	SOCKET, CONNECTOR			
CN701	*1-564-004-00	PIN, CONNECTOR 5P			
CNP801	*1-564-003-00	PIN, CONNECTOR 4P			
CT601	1-141-288-11	TRIMMER			
D002	8-719-801-67	DIODE DLS1585			
D003	8-719-976-19	DIODE RLS-4148			
D101	8-719-109-97	DIODE RD6.8ESB2			
D201	8-719-946-77	DIODE AA1101P			
D202	8-719-946-77	DIODE AA1101P			
D203	8-719-946-77	DIODE AA1101P			
D204	8-719-946-77	DIODE AA1101P			
D205	8-719-946-78	DIODE VR1101P			
D401	8-719-100-03	DIODE 1S2835			
D601	8-719-109-51	DIODE RD2.0ES-B2			
D602	8-719-801-67	DIODE DLS1585			
D604	8-719-106-23	DIODE RD7.5M-B2			
D605	8-719-945-59	DIODE DSA3A4			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D606	8-719-801-67	DIODE DLS1585
D651	8-719-106-54	DIODE RD10M-B3
D901	8-719-109-93	DIODE RD6.2ES-B2
D902	8-719-109-97	DIODE RD6.8ES-B2
D903	8-719-112-55	DIODE RD9.1ES-B3
D904	8-719-100-03	DIODE 1S2835
F901	1-532-419-11	FUSE (3.15 A)
F902	1-532-360-XX	FUSE (1 A)
F903	1-532-360-XX	FUSE (1 A)
HP101	1-543-413-11	HEAD, MAGNETIC (PLAYBACK)
IC101	8-759-105-60	IC UPC1228HA
IC301	8-759-105-48	IC UPC1284G
IC401	8-759-941-15	IC MB88201-550K
IC402	8-759-905-47	IC BA338
IC601	8-759-941-14	IC MB88202-549M
IC651	8-759-600-24	IC M54543L
IC801	8-759-140-74	IC UPC1470H-X
JW104	1-216-296-00	METAL GLAZE 0 5% 1/8W
JW105	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW604	1-216-296-00	METAL GLAZE 0 5% 1/8W
L801	1-410-814-11	INDUCTOR 3.3UH
L901	1-410-838-11	INDUCTOR 330UH
L902	1-410-838-11	INDUCTOR 330UH
M651	X-3339-906-1	MOTOR ASSY (LOADING)
M801	3-391-672-01	MOTOR ASSY (CAPSTAN)
PL201	1-518-626-11	LAMP, PILOT
PL202	1-518-626-11	LAMP, PILOT
PL401	1-518-604-11	LAMP, PILOT
PL701	1-518-626-11	LAMP, PILOT
PM401	1-454-359-00	SOLENOID, PLUNGER
Q205	8-729-901-00	TRANSISTOR DTC124EK
Q301	8-729-100-67	TRANSISTOR 2SC1623-L7
Q302	8-729-100-67	TRANSISTOR 2SC1623-L7
Q351	8-729-100-67	TRANSISTOR 2SC1623-L7
Q352	8-729-100-67	TRANSISTOR 2SC1623-L7
Q371	8-729-901-00	TRANSISTOR DTC124EK
Q401	8-729-901-00	TRANSISTOR DTC124EK
Q405	8-729-101-07	TRANSISTOR 2SB798
Q406	8-729-100-67	TRANSISTOR 2SC1623-L7
Q501	8-729-100-67	TRANSISTOR 2SC1623-L7
Q551	8-729-100-67	TRANSISTOR 2SC1623-L7
Q601	8-729-901-00	TRANSISTOR DTC124EK
Q602	8-729-901-00	TRANSISTOR DTC124EK
Q603	8-729-116-42	TRANSISTOR 2SD1164
Q604	8-729-901-00	TRANSISTOR DTC124EK
Q605	8-729-100-67	TRANSISTOR 2SC1623-L7
Q606	8-729-901-00	TRANSISTOR DTC124EK
Q607	8-729-901-00	TRANSISTOR DTC124EK
Q608	8-729-901-23	TRANSISTOR DTC143TK
Q609	8-729-901-00	TRANSISTOR DTC124EK
Q610	8-729-901-01	TRANSISTOR DTC144EK

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q611	8-729-901-05	TRANSISTOR DTB123EK
Q612	8-729-100-67	TRANSISTOR 2SC1623-L7
Q613	8-729-100-67	TRANSISTOR 2SC1623-L7
Q614	8-729-901-05	TRANSISTOR DTA124EK
Q615	8-729-901-05	TRANSISTOR DTA124EK
Q651	8-729-901-05	TRANSISTOR DTA124EK
Q652	8-729-188-23	TRANSISTOR 2SD882
Q653	8-729-100-67	TRANSISTOR 2SC1623-L7
Q901	8-729-188-23	TRANSISTOR 2SD882
Q902	8-729-901-47	TRANSISTOR DTA143EK
Q903	8-729-100-67	TRANSISTOR 2SC1623-L7
Q904	8-729-177-43	TRANSISTOR 2SD774
Q905	8-729-901-00	TRANSISTOR DTC124EK
R001	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R101	1-216-027-00	METAL GLAZE 120 5% 1/10W
R102	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W
R103	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R104	1-216-025-00	METAL GLAZE 100 5% 1/10W
R151	1-216-027-00	METAL GLAZE 120 5% 1/10W
R152	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W
R153	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R201	1-216-035-00	METAL GLAZE 270 5% 1/10W
R202	1-216-035-00	METAL GLAZE 270 5% 1/10W
R203	1-216-035-00	METAL GLAZE 270 5% 1/10W
R204	1-216-035-00	METAL GLAZE 270 5% 1/10W
R205	1-216-035-00	METAL GLAZE 270 5% 1/10W
R206	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R301	1-249-349-11	CARBON MELF 15K 5% 1/8W
R302	1-216-043-00	CARBON MELF 560 5% 1/8W
R303	1-249-353-11	CARBON MELF 33K 5% 1/8W
R304	1-249-338-00	CARBON MELF 1.8K 5% 1/8W
R305	1-249-345-11	CARBON MELF 6.8K 5% 1/8W
R306	1-249-341-11	CARBON MELF 3.3K 5% 1/8W
R307	1-249-355-11	CARBON MELF 47K 5% 1/8W
R308	1-216-116-00	METAL GLAZE 620K 5% 1/10W
R309	1-249-362-11	CARBON MELF 180K 5% 1/8W
R351	1-249-349-11	CARBON MELF 15K 5% 1/8W
R352	1-216-043-00	CARBON MELF 560 5% 1/8W
R353	1-249-353-11	CARBON MELF 33K 5% 1/8W
R354	1-249-338-11	CARBON MELF 1.8K 5% 1/8W
R355	1-249-345-11	CARBON MELF 6.8K 5% 1/8W
R356	1-249-341-11	CARBON MELF 3.3K 5% 1/8W
R357	1-249-355-11	CARBON MELF 47K 5% 1/8W
R358	1-216-116-00	METAL GLAZE 620K 5% 1/10W
R359	1-249-362-11	CARBON MELF 180K 5% 1/8W
R371	1-249-353-11	CARBON MELF 33K 5% 1/8W
R372	1-249-339-11	CARBON MELF 2.2K 5% 1/8W
R375	1-249-345-11	CARBON MELF 6.8K 5% 1/8W
R401	1-216-073-00	METAL GLAZE 10K 5% 1/10W

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R402	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R403	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R405	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R406	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R407	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R408	1-216-046-91	METAL GLAZE	750	5%	1/10W	
R409	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R410	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R411	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R412	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R450	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R451	1-216-046-91	METAL GLAZE	750	5%	1/10W	
R501	1-249-336-11	CARBON MELF	1.2K	5%	1/8W	
R502	1-249-350-11	CARBON MELF	18K	5%	1/8W	
R503	1-249-333-11	CARBON MELF	680	5%	1/8W	
R504	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R551	1-249-336-11	CARBON MELF	1.2K	5%	1/8W	
R552	1-249-350-11	CARBON MELF	18K	5%	1/8W	
R553	1-249-333-11	CARBON MELF	680	5%	1/8W	
R554	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R601	1-247-743-11	CARBON	220	5%	1/2W	
R602	1-247-735-11	CARBON	47	5%	1/2W	
R604	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R605	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R606	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R607	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R608	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R609	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R610	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R611	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R613	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R614	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R615	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R616	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R651	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R652	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R653	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R654	1-249-478-11	CARBON	2.2	5%	1/2W	F
R661	1-216-087-91	METAL GLAZE	39K	5%	1/10W	
R701	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R702	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R703	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R801	1-216-044-00	METAL GLAZE	620	5%	1/10W	
R802	1-216-032-00	METAL GLAZE	200	5%	1/10W	
R803	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R805	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R901	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R904	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R905	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R906	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R907	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R998	1-216-198-91	METAL GLAZE	1K	5%	1/8W	
R999	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV301	1-230-524-11	RES, ADJ, METAL GLAZE 22K
RV351	1-230-524-11	RES, ADJ, METAL GLAZE 22K
RV801	1-230-329-11	RES, ADJ, CARBON 470 (SPEED ADJ)
SW101	1-571-002-11	SWITCH, SLIDE
SW201	1-571-004-11	SWITCH, PUSH (1 KEY)(PLAY SENSE)
SW202	1-571-003-11	SWITCH, LEAF (MUTING)
SW203	1-554-024-00	SWITCH, LEAF (FF SENSE)(▶▶)
SW204	1-554-024-00	SWITCH, LEAF (REW SENSE)(◀◀)
SW301	1-571-002-11	SWITCH, SLIDE (METAL)
SW401	1-570-953-11	SWITCH, PUSH (1 KEY)(TAPE SENSE)
SW402	1-571-004-11	SWITCH, PUSH (1 KEY)(FR MUTING)
SW601	1-553-226-00	SWITCH, LEAF (OPENED SENSE)
SW651	1-553-226-00	SWITCH, LEAF (CLOSED SENSE)
SW701	1-554-937-11	SWITCH, KEY BOARD (STOP)(■)
SW702	1-554-937-11	SWITCH, KEY BOARD (PLAY)(▶)
SW703	1-571-005-11	SWITCH, PUSH (1 KEY)(DOLBY NR)
SW704	1-571-005-11	SWITCH, PUSH (1 KEY)(AMS)
SW801	1-570-953-11	SWITCH, PUSH (1 KEY)(OPEN/CLOSE)(▲)
TH801	1-807-762-11	THERMISTOR, POSITIVE (1.5K 3600RPM)

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-310-655-01	SUPPORT (ND), FITTING
3-315-736-22	BRACKET, NEW D
3-320-636-01	BAG (C), PROTECTION
3-339-927-01	SPACER
3-339-994-01	INDIVIDUAL CARTON
3-339-941-01	CUSHION (F&R)
*3-342-438-01	CASE, RECEIVE
3-701-613-01	BAG, POLYETHYLENE
3-701-628-00	BAG, POLYETHYLENE
3-764-704-11	(AEP,E).....FITTING DRAWING
3-764-704-21	(US,Canadian)...FITTING DRAWING
3-764-704-31	(Canadian).....FITTING DRAWING
3-764-704-41	(AEP,E).....FITTING DRAWING
3-769-393-11	MANUAL, INSTRUCTION
3-769-393-41	(AEP,E)...MANUAL, INSTRUCTION
3-795-515-30	(Canadian)...CARD, WARRANTY
7-682-261-09	SCREW +K 4X8
X-3315-702-1	SCREW ASSY (25MM), FITTING

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